
Middletown Brownfields Program – Phase II Subsurface Investigation

**Formatron
134 Main Street Extension
105 East Main Street
10 Cooley Avenue
Middletown, Connecticut**

Prepared for

**City of Middletown
245 deKoven Drive
Middletown, Connecticut 06457**

and

**US EPA Region I
One Congress Street
Boston, MA 02114**

Prepared by

**VHB/Vanasse Hangen Brustlin, Inc.
54 Tuttle Place
Middletown, Connecticut 06457**

March 2012

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Introduction

At the request of the City of Middletown (herein referred to as the "Client"), Vanasse Hangen Brustlin, Inc. (VHB) conducted a Phase II Subsurface Investigation (SI) at the former Formatron property located at 134 Main Street Extension, 105 East Main Street, and 10 Cooley Avenue in Middletown, Connecticut (herein referred to collectively as the "Site"). Figure 1 depicts the Site location. This report was prepared for the Client and is subject to the terms and conditions of the Agreement between the Client and VHB, as well as the Limitations provided in Appendix A.

The SI included the advancement of seventeen (17) soil borings and three (3) hand auger samples at the Site. Four (4) of these soil borings were completed as permanent groundwater monitoring wells. The soil boring and monitoring well locations were selected by VHB to evaluate soil and groundwater conditions within the previously identified Recognized Environmental Conditions (RECs) at the Site. The locations were selected to ensure adequate coverage across the Site and were in conformance with the locations proposed in the previously-approved Quality Assurance Project Plan (QAPP). Two (2) deviations to the QAPP were identified during the completion of this investigation and are discussed later in this report.

This SI was conducted as part of the Middletown Brownfields Program utilizing EPA Brownfields Assessment Grant funds. It is VHB's understanding that the Client intends to evaluate the environmental condition of the Site to facilitate potential redevelopment. The primary objective of the SI was to investigate whether releases to the environment had occurred within RECs at the Site. The RECs were identified as part of a Phase I Environmental Site Assessment (ESA) completed for the Site in November 2011. The Phase I identified the following RECs at the Site:

- REC 1 - Historical use of the Site for silk, paper bag, and furniture manufacturing – including former painting operations.
- REC 2 - Potential historical generation and storage of hazardous waste
- REC 3 - Historical heating oil underground storage tanks (UST) – free product was documented in 2002.
- REC 4 - Cistern beneath the former dye house
- REC 5 - Floor drains/sump in crawlspace
- REC 6 - Sump in basement
- REC 7 - Former gas generator
- REC 8 - Razing of former on-Site structures – using demolition debris as on-Site fill.
- REC 9 - Potential impacts from off-Site releases

- REC 10 – Potential impacts to Site groundwater
- REC 11 – Potential for hazardous building materials

The above RECs were investigated with the exception of REC 11 – Potential for hazardous building materials. This SI included soil boring and monitoring well installations, soil sampling, monitoring well elevation survey, and groundwater sampling.

Background/ Site History

The Site consists of 2.12 acres of land located along the east side of Main Street Extension, northeast of its intersection with Cooley Avenue and includes four parcels of land known as 128-134 Main Street Extension (Lots 19 and 19a), 105 East Main Street (Lot 2), and 10 Cooley Avenue (Lot 20). The Site is occupied by three (3) interconnected commercial/industrial buildings and associated paved and dirt parking areas. The Site is currently utilized for commercial office and warehouse storage space and is zoned for Transitional Development (TD). Current owners of the Site are listed as N.J. Holdings, LLC (Lots 2, 19, and 19a) and Middletown Holdings, LLC (Lot 20).

The on-Site buildings comprise approximately 25 percent of the Site. The remainder of the Site is comprised of an asphalt-paved parking area (which includes the majority of the 105 East Main Street parcel) and a large dirt area (which includes the majority of the 128-134 Main Street Extension parcel). The 128-134 Main Street Extension parcel was formerly occupied by an approximately 25,000 square foot building. A large portion of this building was demolished in 2011. The dirt portion of the Site is roughly graded and sloped from the central part of the Site down to Main Street Extension.

The north side of the Site is abutted by residential parcels along Main Street Extension and East Main Street. The east side of the Site is bounded by East Main Street, which is developed with a mixture of residential and commercial properties. A former gasoline and automobile service station abuts the southeast side of the Site. The south side of the Site is bounded by Cooley Avenue and residential properties to the south of Cooley Avenue. The west side of the Site is bounded by Main Street Extension and commercial and residential properties. A gas station is located to the southwest of the Site across Main Street Extension.

Based upon information presented in the Phase I report, the Site has been historically developed with commercial and industrial structures, with the exception of a residential structure that formerly existed on Lot 2. The Site was occupied from the 1880s to approximately the 1930s by various manufactures of silk and braided goods. These manufacturing facilities operated out of several factory structures on the Site, including a dye/storage house, a spinning, spooling, and winding house, an office and storage building, and a large weaving and warping building. A “gas generator”, cistern, and water tank were formerly located at the Site in association with the factories. A road

identified as "Clay Avenue" formerly existed at the Site as an access drive to the factory buildings.

According to historic City Directories and assessor records reviewed, the Middlesex Supply Company, a plumbing supplies facility occupied the Site from circa 1945 to 1965; Wilcox Lace Manufacturing Corporation from circa 1955 to 1960; Middletown Electric Supply, Inc. from circa 1965 to 1990; and Formatron Equipment Corporation (manufacturer's of beauty shop furniture and equipment) from circa 1970 to 1996. Directories dated 1940 through 1950 indicate that Middlesex Bag & Paper, Inc. operated at the Site.

The area surrounding the Site historically consisted of a mixture of residential and commercial/industrial land uses including various manufacturing facilities along Main Street Extension and East Main Street.

Previous Environmental Investigations

Several previous investigations were identified for the Site during completion of this ESA. A summary of the information reviewed is presented below.

Vanasse Hangen Brustlin (VHB), Inc. Phase I ESA, dated November, 2011

A Phase I Environmental Site Assessment (ESA) was completed for the Site in November 2011. The Phase I identified the following RECs at the Site.

- REC 1 – Historical use of the Site for silk, paper bag, and furniture manufacturing – including former painting operations.
- REC 2 – Potential historical generation and storage of hazardous waste
- REC 3 – Historical heating oil underground storage tanks (UST) – free product was documented in 2002.
- REC 4 – Cistern beneath the former dye house
- REC 5 – Floor drains/sump in crawlspace
- REC 6 – Sump in basement
- REC 7 – Former gas generator
- REC 8 – Razing of former on-Site structures – using demolition debris as on-Site fill.
- REC 9 – Potential impacts from off-Site releases
- REC 10 – Potential impacts to Site groundwater
- REC 11 – Potential for hazardous building materials

Vanasse Hangen Brustlin (VHB), Inc. Phase I ESA Phase I, Riverfront Revitalization Project – Area 5, 21 Parcels, East Main Street, Flower Street, Main Street

Extension, and Cooley Avenue Properties, dated
February, 2005

This Phase I was completed by VHB for the City of Middletown as part of the City of Middletown's Riverfront Revitalization Project. The assessment targeted twenty-one (21) parcels of land in the vicinity of Main Street Extension and East Main Street including the Site. Access to the Site was not granted during the assessment. Therefore, observations were limited to exterior portions of the area made from adjacent public roads. The Phase I documented that the Site was occupied from the 1880s to approximately the 1930s by various manufactures of silk and braided goods. The assessment identified a "gas generator", cistern, and water tank at the Site. Permit applications reviewed at the building department indicated that two (2) 2,000-gallon and one (1) 1,000-gallon fuel oil tanks were removed from the Site.

The Site was identified on various environmental databases searched as part of the Phase I, including one (1) spill and LUST listing at 10 Cooley Avenue (Lot 20). Based on information presented in the database listing, on April 30, 2002 an undocumented amount of #2 fuel oil was released on the 10 Cooley Avenue property due to failure of a 1,000-gallon UST. The 1,000-gallon UST was reportedly subsequently removed from the Site.

A second spill and LUST listing appear to be related to a single incident. Based on information presented in the database listing, on May 8, 2002 an undocumented amount of #2 fuel oil was released at 128-134 Main Street Extension (Lot 19/19A) due to failure of a 3,000-gallon UST. The 3,000-gallon UST was reportedly subsequently removed from the property. This spill incident was documented in an Emergency Incident Report dated May 28, 2002, found on file at the CTDEEP. The CTDEEP report also indicated that the tank was removed from the property and that the release had been terminated.

The report concluded by presenting the following identified RECs -

- Potential soil and groundwater contamination related to historic and current land uses and documented releases.
- Potential soil and groundwater contamination related to petroleum releases at and in the vicinity of the Site.
- Potential for releases of petroleum products from historic and/or current on-Site ASTs and USTs.

The report recommended a Phase II Subsurface Investigation be conducted at the Site to determine if soil and/or groundwater at the Site have been impacted from releases of petroleum products at the Site or from off-Site sources.

**Vanasse Hangen Brustlin (VHB), Inc. Desktop Review
and Limited Survey, 128-134 Main Street Extension,
dated December, 2002**

The desktop review and limited survey were completed for N.J Holdings, LLC prior to a potential purchase of the property. The review and survey included a visual inspection of exterior portions of the property, a review of a UST removal report, a limited environmental database review, and a review of publically-available files at CTDEEP. The letter presented the following conclusions.

- No information was identified during the limited review regarding hazardous waste generation activities at the Site.
- A release was reported during the removal of a 3,000-gallon heating oil UST. A limited amount of petroleum-impacted soil was apparently removed from the Site and post-excavation samples were collected. The post-excavation samples reportedly indicated that "no residual petroleum hydrocarbons remained in place." The exact location of the UST was not identified and no determination as to whether additional USTs may be located on-Site was completed.
- No documented releases of OHM were identified at the Site; however, based upon documented historical Site usage, several potential release areas were identified. Potential release areas were identified as:
 - Former coal storage area on the eastern portion of the property
 - Cistern located beneath the former dye house
 - Current or former Site USTs, and
 - Historical waste generation
- Based upon the highly-developed, urban setting, releases from surrounding properties have the potential to impact Site groundwater.

The letter presented the following recommendations:

- Consult legal counsel to determine whether the Site meets the definition of an establishment.
- Properly register the former 3,000-gallon heating oil UST that was removed from the Site and initiate groundwater monitoring activities to demonstrate compliance with Remediation Standard Regulations and UST regulations as a result of the completed petroleum-impacted soil removal.
- Conduct a Phase II subsurface investigation to evaluate Site soil and groundwater conditions.

Federated Environmental Associates, Inc., Phase I
ESA 99, 105, 134 E. Main Street and 10 Cooley
Avenue, dated March, 2002

This Phase I was completed for CIT Group – Small Business Lending on behalf of Max Baldwin/Baldwin Lawn Furniture for a potential purchase of the property or portion of the property.

At the time of the assessment, the Site occupants were identified as Ben's Budget Office Furniture and Mark and Susan's Upholsterers. It was noted that the majority of the Site was vacant with the exception of limited portions of it being used for warehousing. Properties surrounding the Site are identified as a former gasoline station, State of Connecticut Department of Children and Families offices, and a furniture store.

The report documents historical industrial uses of the Site as silk manufacturing, bag & paper goods manufacturing, cabinetry, woodworking, and warehousing. No other Site uses were identified and the report documents that an environmental database review did not identify the Site or any adjacent or nearby properties of concern. The report did document that a former gasoline station located east of the Site could represent a potentially contaminated property.

The report documents three (3) or four (4) abandoned USTs located on-Site. The report documents that during the Site walk, asbestos-containing building materials were noted on-Site, but at the time of completing the report they had since been removed.

The report identified the following Recognized Environmental Conditions (RECs):

- Potential asbestos-containing building material
- A pad-mounted transformer
- Floor drains
- Non-hazardous waste generation
- Adjacent, potentially contaminated former gasoline station
- Historical Site operations
- Historical chemical storage and use (55-gallon drums and other chemical containers were identified on-Site).
- On-Site USTs
 - One (1) UST of unknown capacity, age, construction and contents, was identified near the northwest corner of the Site building (adjacent to Main Street Extension). The report speculated that the UST likely contained heating oil.
 - One (1) UST of unknown capacity, age, construction and contents, was identified near the west side of the Site building in a parking lot area.

The report documents that at the time of the Site walk a Site contact stated that the UST was 1,000-gallons in capacity and contained heating oil.

- The report documents that one (1) or two (2) USTs of unknown capacity, age, construction and contents, are located near the southeast corner of the Site building (near a paved driveway along the property's eastern boundary). The report speculates that the USTs likely contain heating oil.
- The report documents that other USTs may be present on the Site that were not identified and recommends that all USTs be removed in accordance with Connecticut regulations.
- The report documents that lead-based paint is present on-Site and that the borrower may elect to attempt to mitigate lead-containing dust created by potential renovation activities.

The report presents the following recommendations:

- All on-Site USTs should be removed in accordance with applicable regulations.
- All 55-gallon drums and other chemical containers should be removed and properly disposed of off-Site.
- Limited quantities of asbestos were identified on-Site and a comprehensive asbestos survey was recommended prior to significant renovation or demolition activities. A comprehensive asbestos survey was also recommended for the "Victorian house" located on-Site that was reportedly scheduled for demolition at the time of the ESA.

No other previous investigations were identified or reviewed during the completion of this ESA.

Environmental Setting

Topography

According to the United States Geological Survey (USGS) 7.5-Minute Quadrangle Middletown, Connecticut topographic map, the Site is located approximately 50 feet above sea level. Based on review of this map, the topography of the Site can be characterized as sloping down to the northeast.

Hydrology

Groundwater below and near the site is classified by the Connecticut Department of Energy and Environmental Protection (CTDEEP) as a GB groundwater area. The GB

classification indicates groundwater within a historically highly urbanized area or an area of intense industrial activity and where public water supply service is available. Such groundwater may not be suitable for human consumption without prior treatment due to waste discharges, spills or leaks of chemicals or land use impacts.

Groundwater flow direction may be impacted locally by surface topography, hydrology, hydrogeology and soil characteristics. Based on available hydrogeological references for regional groundwater flow in the vicinity of the Site, groundwater flow is likely generally toward the north, but may be influenced to the east by the Connecticut River and the west by Sumner Creek.

Wetlands

No obvious wetland vegetation was observed at the Site during the Site reconnaissance. A formal wetlands survey was not part of the scope of services for this investigation and was not conducted as part of this ESA.

Soils/Geology

Surficial Soils in the vicinity of the Site are mapped as till. Bedrock geology underlying the Site property is identified as the Portland Arkose Formation. This formation/bedrock consists of red-to-brown, medium-to-coarse grained, sandstone-like, sedimentary rock, consisting of quartz, feldspar, and other various rock fragments.

Surrounding Land Use

The north side of the Site is abutted by residential parcels along Main Street Extension and East Main Street. The east side of the Site is bounded by East Main Street, which is developed with a mixture of residential and commercial properties. A former gasoline and automobile service station abuts the southeast side of the Site. The south side of the Site is bounded by Cooley Avenue and residential properties to the south of Cooley Avenue. The west side of the Site is bounded by Main Street Extension and commercial and residential properties. A gas station is located to the southwest of the Site across Main Street Extension.

2

Data Collection and Analysis

On February 9th, 13th, and 14th, 2012, a representative of VHB monitored the advancement of seventeen (17) soil borings and three (3) hand auger samples at the Site. Four (4) of these soil borings were completed as permanent groundwater monitoring wells. The soil boring and monitoring well locations were selected by VHB to evaluate soil and groundwater conditions within the previously identified RECs at the Site. The locations were selected to ensure adequate coverage across the Site and were in conformance with the locations proposed in the previously-approved Quality Assurance Project Plan (QAPP).

The locations of the soil borings and groundwater monitoring wells are depicted on Figure 2. The soil borings and groundwater monitoring wells were installed by Site, LLC drilling of Beacon Falls, Connecticut. Soil borings completed in exterior portions of the Site were advanced using a track-mounted Geoprobe® direct-push drill rig. Hand auger samples in the basement and crawlspace of the Site building (which were inaccessible to a Geoprobe®) were completed using hand sampling tools. Groundwater monitoring wells were installed using a truck-mounted hollow-stem auger (HSA) drill rig.

Soil Boring Advancement and Soil Sample Collection

The following is a summary of the soil boring advancement activities completed at the Site as part of this investigation. Details regarding each boring are contained in the boring logs presented in Appendix B. During this investigation, soil borings/wells were completed to a maximum depth of eighteen (18) feet below grade. No bedrock was encountered during the completion of the borings or wells. Soil samples were collected utilizing two inch (2") diameter by sixty inch (60") long Macro-Core® samplers with the Geoprobe® direct-push drill rig.

Soil characteristics were logged in the field to denote composition, color, grain size, moisture content, and other attributes. Soil samples were screened using a handheld photoionization detector (PID) and field screened for evidence of staining, odor, or other overt indications of potential impacts. Throughout this investigation the PID was

equipped with a 10.6 eV bulb. The highest PID response noted during field screening was recorded at 130.9 parts per million (PPM) from sample B-15 (5' - 7').

In accordance with the approved QAPP the soil samples were collected and delivered under proper chain of custody documentation to Con-Test Analytical Laboratories of East Longmeadow, Massachusetts. The collected soil samples were submitted for laboratory analysis of one or more of the following; volatile organic compounds (VOCs) via Environmental Protection Agency (EPA) Method 8260C, extractable total petroleum hydrocarbons (ETPH) via the Connecticut Department of Energy and Environmental Protection (CTDEEP) approved method, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270D, polychlorinated biphenyls (PCBs) via EPA Method 8082A, and CTDEEP Remediation Standard Regulation (RSR) fifteen (15) metals via EPA Methods 7471B and 6010C.

A duplicate soil sample was collected each day that soil samples were collected during the investigation. A duplicate groundwater sample was collected from one (1) of the groundwater monitoring wells during the investigation. The duplicate samples were submitted for laboratory analysis identical to the original samples. Trip blanks accompanied the soil samples on the February 9th and 13th and the groundwater samples of February 23rd 2012. The trip blanks were analyzed for VOCs only. The results of the duplicate and trip blank sample analyses were used for data validation purposes.

Monitoring Well Installation and Soil Sample Collection

Four (4) of the soil borings were completed as permanent groundwater monitoring wells. These wells were installed to a maximum depth of eighteen (18) feet in the shallow overburden material at the Site. The monitoring wells were constructed of two inch (2") diameter PVC with expandable gripper caps, and finished at grade with flush-mounted, traffic-grade curb boxes. At the time of well installation it was difficult to determine the exact depth to the groundwater table. Therefore, each well was constructed with fifteen feet (15') of well screen to ensure that the screen interval would intersect the watertable.

Within each well the screen was topped with solid PVC riser to approximately six inches below grade. Filter sand extends to approximately two (2) feet above each screen interval. A layer of bentonite chips was placed on top of the filter sand, followed by native backfill to grade. The curb boxes were set in concrete at grade. The wells are identified as MW-1, MW-2, MW-3, and MW-4 (refer to Figure 2). Detailed boring and monitoring well construction logs are included in Appendix B.

Prior to the installation of the wells with a hollow-stem auger drill rig, shallow soil samples were collected from the locations using a Geoprobe® direct-push drill rig and a Macro-Core® sampling device. The monitoring well boreholes were pre-probed to a depth of ten (10) feet below grade.

A monitoring well elevation survey was completed on February 23, 2012. This survey was completed relative to an arbitrary local datum and used to determine the inferred direction of shallow groundwater flow beneath the Site. Based on relative groundwater depths obtained on February 23, 2012 (see Table 1 and Figure 3), inferred groundwater flow beneath the Site appears to be in a northwesterly direction.

Groundwater Sample Collection

Groundwater samples were collected from the four (4) groundwater monitoring wells on February 23, 2012. The groundwater samples were collected using the EPA Low Flow Standard Operating Procedure¹, as referenced in the CTDEEP Site Characterization Guidance Document (SCGD) dated December 2010. The groundwater samples were collected in laboratory-supplied sample containers, refrigerated, and delivered under proper chain of custody documentation to Con-Test Analytical Laboratories of East Longmeadow, Massachusetts. The collected groundwater samples were submitted for laboratory analysis of VOCs, ETPH, PAHs, and CTDEEP 15 RSR total metals. During the groundwater sampling event of February 23, 2012 a duplicate groundwater sample was collected from MW-1 and submitted for laboratory analysis identical to the original sample.

Remediation Standard Regulations

Analytical results discussed below have been compared to the CTDEEP RSRs, CGS Section 22a-133k. The RSRs define the standard applicable to the Site dependent on the groundwater classification (mapped by CTDEEP) and uses of the property.

Based on relevant Site data, the CTDEEP Residential Direct Exposure Criteria (RDEC), Industrial/Commercial DEC (I/C DEC), and Pollutant Mobility Criteria for GB areas (GB PMC) apply to the Site's soil. RDEC applies to soil at the Site since the RSRs require, whenever feasible, a reduction in residual soil contaminant concentrations to levels that pose no significant human health risk (residential standards). Under circumstances where remediation is not practical, an Environmental Land Use Restriction (ELUR) can be applied to the Site limiting future use solely to industrial/commercial purposes. The DEC apply to Site soils located within fifteen (15) feet of the ground surface.

The Surface Water Protection Criteria (SWPC), Residential Volatilization Criteria (R VC), and Industrial/ Commercial Volatilization Criteria (I/C VC) have been used as a means of comparison for Site groundwater quality.

¹ EPA Low Stress (low flow) Purging and Sampling Procedure for the Collection of Ground Water Samples from Monitoring Wells. Revision 2, July 30, 1996. SOP # GW 0001.

Analytical Results

Soil and groundwater analytical results are summarized in Tables 2 and 3, respectively. Laboratory analytical reports are included in Appendix C.

Soil Analytical Results

A total of twenty-two (22) soil samples (twenty (20) primary samples and two (2) duplicate samples) were collected for laboratory analysis during this investigation. One (1) duplicate soil sample was collected during each day of soil sampling. The duplicate samples were submitted for laboratory analysis identical to the primary samples. The collected samples were analyzed for one (1) or more of the following; VOCs, ETPH, PAHs, PCBs, and CTDEEP RSR 15 metals. The results of the soil analyses are summarized on the attached Table 2.

Volatile Organic Compounds

Sixteen (16) of the collected soil samples were analyzed for volatile organic compounds via EPA Method 8260C. VOCs were reported above the laboratory detection limits in four (4) of the analyzed samples. VOC concentrations above the laboratory detection limits were reported in the B-1 (8-10'), HA-1 (0-0.5'), B-11 (2-4'), B-14 (9-10'), and B-15 (4-5') samples. The concentrations of VOCs reported are below their respective applicable RDEC, I/C DEC, and GB PMC numerical criteria.

Polynuclear Aromatic Hydrocarbons (PAHs)

Twenty-two (22) of the collected soil samples were submitted for laboratory analysis of PAHs via EPA Method 8270D. PAHs were reported above the laboratory detection limits in six (6) of the analyzed samples. Concentrations of PAHs above applicable criteria were reported in two (2) of the analyzed samples.

- **B-1 (8-10')**

Benzo(b)fluoranthene was reported at a concentration of 1.2 mg/kg which exceeds the RDEC and GB PMC of 1 mg/kg, but is below the I/C DEC of 7.8 mg/kg.

- **B-10 (5-7')**

Concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and ideno(1,2,3-cd)pyrene were reported at concentration above applicable numerical criteria. Benzo(a)anthracene was reported at a concentration of 3.1 mg/kg which exceeds the RDEC and GB PMC of 1 mg/kg, but is below the I/C DEC of 7.8 mg/kg. Benzo(a) pyrene was reported at a concentration of 2.3 mg/kg which exceeds the RDEC, I/C DEC, and GB PMC of 1 mg/kg. Benzo(b) fluoranthene was reported at a concentration of 3.0 mg/kg which exceeds the RDEC and GB PMC of 1 mg/kg, but is below the I/C DEC of 7.8 mg/kg. Ideno(1,2,3-cd)pyrene was reported at a concentration of 1.7 mg/kg which

exceeds the RDEC and GB PMC of 1 mg/kg, but is below the I/C DEC of 7.8 mg/kg.

Extractable Total Petroleum Hydrocarbons (ETPH)

Twenty-two (22) of the collected soil samples were submitted for laboratory analysis of ETPH via the CTDEEP-approved method. Concentrations above the laboratory detection limit were reported in twelve (12) of the analyzed samples. The reported concentrations ranged from 21 mg/kg (HA-3 0'-2') to 4,300 mg/kg (HA-1 0.5'). Three (3) of the reported concentrations 790 mg/kg (B-5 3'), 4,300 mg/kg (HA-1 0-0.5'), and 2,900 mg/kg (B-15 4-5') exceed the RDEC of 500 mg/kg. Two (2) of the reported concentrations 4,300 mg/kg (HA-1 0-0.5') and 2,900 mg/kg B-15 4-5') exceed the I/C DEC and GB PMC of 2,500 mg/kg.

Polychlorinated Biphenyls

Twelve (12) of the collected soil samples were submitted for laboratory analysis of PCBs via EPA Method 8082. PCBs were not reported above the laboratory detection limits in the analyzed soil samples.

15 CTDEEP RSR Metals

Sixteen (16) soil samples were submitted for laboratory analysis of fifteen (15) CTDEEP RSR metals. Concentrations above the laboratory detection limit were reported in each of the analyzed samples. The reported concentrations are below applicable criteria with the exception of lead in the HA-1 (0-0.5') sample. A lead concentration of 410 mg/kg was reported in the HA-1 (0-0.5') sample which exceeds the RDEC of 400 mg/kg. The reported concentration is below the I/C DEC of 1,000 mg/kg.

Groundwater Analytical Results

Groundwater samples were collected from the four (4) Site wells on February 23, 2012. Groundwater samples were collected from each of the Site wells along with a duplicate sample from MW-1. Groundwater samples were submitted for laboratory analysis of ETPH, VOCs, PAHs, and CTDEEP RSR 15 total Metals.

Extractable Total Petroleum Hydrocarbons

ETPH was reported in four (4) of the analyzed samples above the laboratory detection limits. The reported concentrations ranged from 0.39 mg/L (MW-1 DUP) to 0.79 mg/L (MW-4). Since the Site is located within an area classified as GB, there is no numerical criteria for the comparison of ETPH. However, the presence of ETPH in groundwater may be used as an indicator of potential impacts due to on-Site or off-Site releases. For comparison purposes, the ETPH numerical criterion in a GA groundwater area is 0.1 mg/L.

Volatile Organic Compounds

Target VOCs were reported above the laboratory detection limits in each of the analyzed samples. The reported concentrations of VOCs are below the RVC, I/CVC, and SWPC.

Polynuclear Aromatic Hydrocarbons (PAHs)

PAHs were reported above the laboratory detection limits in one (1) of the analyzed samples (MW-4). Low levels (below applicable criteria) of acenaphthalene and 2-methylnaphthalene were reported in the sample collected from MW-4.

15 CTDEEP RSR Metals

Targeted metals were reported above applicable numerical criteria in two (2) of the collected groundwater samples. Arsenic was reported at concentrations of 8.2 µg/l and 5.8 µg/l in the MW-3 and MW-4 samples, respectively. The reported concentrations exceed the SWPC of 4 µg/l. Copper was reported at a concentration of 97 µg/l in the sample collected from MW-3. The reported concentration is equal to the SWPC of 97 µg/l. Lead was reported at a concentration of 19 µg/l in the sample collected from MW-3. The reported concentration exceeds the SWPC of 13 µg/l. Zinc was reported at a concentration of 220 µg/l in the sample collected from MW-3. The reported concentration exceeds the SWPC of 123 µg/l.

Data Validation

In accordance with the QAPP the quality assurance and control program includes a review of field procedures (actual field procedures compared to the submitted Standard Operating Procedures (SOPs)), an evaluation of the planned scope of work (SOW) to the actual field investigation completed, laboratory data validation, and an evaluation of soil and groundwater analytical usability.

Field Data Validation

Upon completion of the field work phase of the investigation a comparison of actual field procedures to the submitted SOPs was completed. No deviations from the approved SOPs were identified.

QAPP Deviation

The scope of work presented in the approved QAPP included the installation of three (3) groundwater monitoring wells on the Site. During the completion of the field investigation a fourth well (MW-4) was installed to assess groundwater quality in an area where apparent impacts were identified. The fourth well was added based upon evidence of apparent petroleum impacts identified during field screening of soil samples collected from two (2) soil borings. Visual, olfactory, and PID response indications of impacts were identified during the screening of soil samples from soil borings B-14 and B-15. On February 13th, the City of Middletown and EPA were contacted via telephone and email to request approval to install a well in boring B-15. Approval was granted by the City and EPA and MW-4 was installed on February 14th.

A second minor deviation from the QAPP was noted regarding the installation of MW-3. The location for MW-3 was planned to be in boring B-8. However, due to the presence of overhead electrical wires (which did not present an access limitation for the Geoprobe®, but did for the hollow-stem auger drill rig), MW-3 was moved approximately fifteen (15) feet to the east.

Laboratory Data Validation

Upon completion of the field work portion of the investigation a comparison of the project sampling objectives to the actual samples collected was completed. The evaluation included a review of the samples collected, preservation methods, sample containers, chains of custody, requested and completed analyses, and hold times. A summary of the soil and groundwater data validation information is presented on Tables 4 and 5. A discussion of the sample validation is presented below.

Soil Data Usability Evaluation

A total of twenty-two (22) soil samples (twenty (20) primary samples and two (2) duplicate samples) were collected for laboratory analysis during this investigation. Duplicate samples were submitted for laboratory analysis identical to the primary sample. One duplicate was collected with the primary B-3 (2-4') sample and one duplicate was collected with the B-4 (2-4') sample. A discussion of the primary and duplicate sample analyses is presented below. A statistical comparison of the soil QA/QC samples is presented on Table 4.

Of the 110 total targeted parameters (ETPH, VOCs, PAHs, CTDEEP 15 RSR metals, and PCBs) analyzed on the primary and duplicate B-4 (2-4') samples, 103 parameters were reported as below the laboratory detection limit in both samples. The Relative Percent Difference (RPD) was calculated for the seven (7) parameters reported above the laboratory detection limit in at least one of the samples. The RPD in these samples ranged from 1.18% (lead) to 25.64% (copper). Generally, the calculated RPD was quite low for the majority of these samples, indicating that the primary and duplicate reported concentrations corresponded very well. The exception being the calculated RPD for the copper concentrations reported in the primary and duplicate samples. The discrepancies in the reported concentrations are likely attributable to variation in the sample matrices.

Of the 110 total targeted parameters (ETPH, VOCs, PAHs, CTDEEP 15 RSR metals, and PCBs) analyzed on the primary and duplicate B-3 (2-4') samples, 103 parameters were reported as below the laboratory detection limit in both samples. The Relative Percent Difference (RPD) was calculated for the seven (7) parameters reported above the laboratory detection limit in at least one of the samples. The RPD in these samples ranged from 15.87% (vanadium) to 32.26% (barium). The calculated RPD indicates that the primary and duplicate reported concentrations corresponded moderately well. The

discrepancies in the reported concentrations are likely attributable to variation in the sample matrices.

Trip blanks accompanied the soil samples collected on February 9th and 13th. The trip blanks were provided by the laboratory and submitted for analysis of VOCs. Targeted VOCs were not reported above the laboratory detection limits in the trip blanks.

Groundwater Data Usability Evaluation

The four (4) permanent groundwater monitoring wells were sampled on February 23, 2012. Groundwater samples were collected from each well along with a duplicate sample from monitoring well MW-1. The collected groundwater samples (primary samples and duplicate) were submitted for laboratory analysis consisting of VOCs, ETPH, PAHs, and CTDEEP 15 RSR metals.

A discussion of the primary and duplicate sample analyses is presented below. A statistical comparison of the groundwater QA/QC samples is presented on Table 5. Of the 101 total targeted parameters (ETPH, VOCs, PAHs, and CTDEEP 15 RSR metals) analyzed on the primary and duplicate samples, 95 were reported as below the laboratory detection limit in both samples. Five (5) parameters (ETPH, acetone, 2-butanone (MEK), carbon disulfide, and trichloroethylene) were reported with concentrations above the laboratory detection limits in both the primary and duplicate samples. The RPD was calculated for each of the five (5) reported parameters. The RPD between the primary and duplicate samples for these parameters ranged from 0% (trichloroethylene) to 17.5% (acetone). In summary, the primary and duplicate samples corresponded well and the calculated RPDs are within the range of tolerance of the analytical methods.

A Trip blank accompanied the groundwater samples collected on February 23, 2012. The trip blank was provided by the laboratory and submitted for analysis of VOCs. Targeted VOCs were not reported above the laboratory detection limit in the trip blank.

Based upon a review of the QA/QC results for samples collected during this investigation, the QA/QC objectives for this project have been met and the collected data is valid.

4

Conclusions

VHB has completed a Phase II Subsurface Investigation (SI) at the former Formatron property located at 134 Main Street Extension, 105 East Main Street, and 10 Cooley Avenue in Middletown, Connecticut. The SI included the advancement of seventeen (17) soil borings and three (3) hand auger samples at the Site. Four (4) of these soil borings were completed as permanent groundwater monitoring wells. The soil boring and monitoring well locations were selected by VHB to evaluate soil and groundwater conditions within the previously identified RECs at the Site. The locations were selected to ensure adequate coverage across the Site and were in conformance with the locations proposed in the previously-approved Quality Assurance Project Plan (QAPP).

This SI was conducted as part of the Middletown Brownfields Program utilizing EPA Brownfields Assessment Grant funds. It is our understanding that the Client intends to evaluate the environmental condition of the Site to facilitate potential redevelopment.

The primary objective of the SI was to investigate whether releases to the environment had occurred within areas of Recognized Environmental Conditions (RECs) at the Site. The RECs were identified through conduct of a previously-completed Phase I Environmental Site Assessment (ESA) completed for the Site in November 2011.

Subsurface Investigation

Based upon the results of the SI, apparent release areas and impacts have been identified at the Site.

- *REC 1 – Historical use of the Site for silk, paper bag, and furniture manufacturing – including former painting operations*
Two (2) soil borings (B-1 and B-2) were completed in this REC and two (2) soil samples were submitted for laboratory analysis. A low level of ETPH and VOCs were reported in one of the soil samples. Low levels of metals, presumably representative of background concentrations across the Site, were identified in both of the soil samples. PAHs were reported above criteria in one of the analyzed samples. The reported ETPH, VOCs, and PAHs concentrations appear to be indicative of a minor release within this REC.

- ***REC 2 – Potential historical generation and storage of hazardous waste***
Two (2) soil borings (B-3 and B-4) were completed in this REC and four (4) soil samples were submitted for laboratory analysis. Low levels of ETPH were reported in two (primary and a duplicate) of the samples submitted from the B-3 boring. Low levels of metals, presumably representative of background concentrations across the Site, were identified in the samples. The reported ETPH concentrations appear to be indicative of a minor release within this REC.
- ***REC 3 – Historical heating oil underground storage tanks (UST)***
Six (6) soil borings (B-5, B-6, B-7, B-8, B-9, and B-10) were completed in this REC and six (6) soil samples were submitted for laboratory analysis. ETPH was reported in one (1) sample (B-5 (3')) at a concentration above criteria. ETPH was reported in two (2) samples at concentrations below criteria. Low levels (below criteria) of PAHs were reported in one (1) sample. PAHs were reported above criteria in one (1) sample. The reported ETPH and PAH concentrations appear to be indicative of two (2) separate releases within this REC.

Two (2) groundwater monitoring wells (MW-2 and MW-3) were installed in this REC. One (1) well was installed in the area of the B-8, B-9, and B-10 borings and one (1) well was installed in the area of the B-5, B-6, and B-7 borings. Low level VOCs (below criteria) were reported in the MW-2 groundwater sample. ETPH was reported at a concentration above the laboratory detection limit in the groundwater sample collected from MW-2. Although no criteria exist for ETPH in a GB area, the reported concentration appears indicative of a release in this area. Heating oil USTs were historically located in this area.

Low level VOCs (below criteria) were reported in the MW-3 groundwater sample. ETPH was not reported at a concentration above the laboratory detection limit in the groundwater sample collected from MW-3. Metals were reported at levels above criteria in the groundwater sample collected from MW-3.

One release appears to be in the area of a current heating oil UST (134 Main Street Extension parcel) and a second release appears to be in the area of former heating oil USTs (10 Cooley Avenue parcel) that were removed in 2002.

- ***REC 4 – Cistern beneath the former dye house***
One (1) hand sample (HA-1) was completed in this REC. ETPH and metals were reported in the soil sample at concentrations above criteria. Low levels (below criteria) of VOCs and PAHs were reported in the soil sample. The sample was collected from adjacent to the apparent drain of the cistern. Details of the construction of the cistern are unknown. At the time of sample collection, the majority of the cistern was filled with building debris and rubble. The area where the sample was collected was the only area that allowed access to the apparent bottom of the cistern. The constituents identified in the sample are representative of the material in the bottom of the cistern and may not be representative of what is in the surrounding environment.
- ***REC 5 – Floor drains/sump in crawlspace***
One (1) hand sample (HA-2) was completed in this REC. ETPH and metals were reported in the soil sample at concentrations below criteria. The configuration of piping connected to the sump is unknown. Based upon the location of the sump, it is

believed that it may receive flow from the cistern and may discharge in the direction of Cooley Avenue.

- ***REC 6 -Sump in basement***

One (1) hand sample (HA-3) was completed in this REC. ETPH and metals were reported in the soil sample at concentrations below criteria. The soil boring was completed through the concrete floor adjacent to a drain/sump in the floor of the basement.

- ***REC 7 - Former gas generator***

Three (3) soil borings (B-11, B-12, and B-13) were completed in this REC and three (3) soil samples were submitted for laboratory analysis. ETPH was reported in one (1) soil sample at a concentration below criteria. Metals were reported in three (3) soil samples at concentrations below criteria. Low levels (below criteria) of VOCs were reported in one (1) sample. The reported ETPH and VOC concentrations appear to be indicative of a minor release in this REC.

- ***REC 8 - Razing of former on-Site structures***

Three (3) soil borings (B-14, B-15, and B-16) were completed in this REC and three (3) soil samples were submitted for laboratory analysis. ETPH was reported in one (1) soil sample at a concentration above criteria. ETPH was reported in one (1) sample at a concentration below criteria. Metals were reported in three (3) samples at concentrations below criteria. Low levels (below criteria) of VOCs were reported in two (2) samples. Low levels (below criteria) of PAHs were reported in two (2) samples.

One (1) groundwater monitoring well (MW-4) was installed in this REC. ETPH, VOCs, PAHs, and metals were reported above the laboratory detection limit in the groundwater sample collected from this well. Arsenic was reported at a concentration that exceeds applicable criteria. Although most of the concentrations identified are below criteria, the impacts identified are indicative of a release in this area.

The ETPH concentration reported in the B-15 sample appears to be indicative of a release on this portion of the Site. The ETPH and PAH concentrations reported in the B-16 sample appear to be indicative of a release in this area.

- ***REC 9 - Potential impacts from off-Site releases***

One (1) soil boring (B-17) was completed in this REC and one (1) soil sample was submitted for laboratory analysis. Metals were reported in the soil sample at a concentration below criteria. The direction of shallow groundwater flow was not known prior to commencing this investigation. Based upon previously-reviewed historical maps, the area of B-17 was considered to be suspect for impacts from off-site releases. However, based upon the inferred direction of shallow groundwater flow determined through this investigation, the boring appears to be downgradient of the majority of the Site and therefore, potentially may not be significantly impacted by off-site releases.

One (1) groundwater monitoring well (MW-1) was installed in this REC. Low levels of VOCs (below criteria) were reported in the groundwater samples (primary and duplicate sample) collected from this well. ETPH was reported above the laboratory detection limit in the primary and duplicate groundwater samples. There is no

applicable criteria for ETPH in a GB area. The reported concentration of ETPH and VOCs appear to be indicative of a release in this area.

- ***REC 10 – Potential impacts to Site groundwater***

Four (4) groundwater monitoring wells (MW-1, MW-2, MW-3, and MW-4) were installed during this investigation. The monitoring wells were installed to assess groundwater quality Site wide and also within specific RECs. The groundwater analytical results are discussed above under specific RECs.

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Recommendations

Based upon the information collected during the completion of the SI, VHB believes that several release areas have been identified at the Site. The data collected indicate that several apparent minor releases to the environment have occurred on or in the vicinity of the Site. VHB recommends that additional investigations be completed to delineate the horizontal and vertical extent of the releases identified.

- ***REC 1 – Historical use of the Site for silk, paper bag, and furniture manufacturing – including former painting operations***
ETPH and PAH concentrations appear to be indicative of a minor release in this REC. Additional investigations are warranted to delineate the degree and extent of impacts.
- ***REC 2 – Potential historical generation and storage of hazardous waste***
The reported ETPH concentrations appear to be indicative of a minor release in this REC. Additional investigations are warranted to delineate the degree and extent of impacts.
- ***REC 3 – Historical heating oil underground storage tanks (UST)***
Based upon the impacts identified in this area two (2) distinct release areas have been identified. One (1) release appears to be in the area of a current heating oil UST (134 Main Street Extension parcel) and a second release appears to be in the area of former heating oil USTs (10 Cooley Avenue parcel) that were removed in 2002. Additional investigations are warranted to delineate the degree and extent of the identified impacts.
- ***REC 4 – Cistern beneath the former dye house***
ETPH and metals were reported in the one (1) sample collected from this area at concentrations above criteria. The sample was collected from adjacent to the apparent drain of the cistern. At the time of sample collection, the majority of the cistern was filled with building debris and rubble and only the area where the sample was collected allowed access to the apparent bottom of the cistern. The constituents identified in the sample are representative of the material in the bottom of the cistern and may not be representative of what is in the surrounding environment.

VHB recommends that the debris be removed from the cistern so an inspection can be completed to determine the construction of the cistern. A determination should be made as to the discharge path of the cistern and additional samples may need to be collected from within or below the cistern.

- ***REC 5 – Floor drains/sump in crawlspace***

The configuration of piping connected to the sump is unknown. Based upon the location of the sump, it is believed that it may receive flow from the cistern and may discharge in the direction of Cooley Avenue. An investigation of the piping configuration should be completed to determine the source of the influent and the discharge location of the sump.

- ***REC 6 -Sump in basement***

ETPH and metals were reported in the sample collected from this area at concentrations below criteria. The soil boring was completed through the concrete floor adjacent to a drain/sump in the floor of the basement. While the reported concentrations do not appear to be indicative of a significant release, additional soil investigation is warranted in this area to delineate the extent and degree of the impacts.

- ***REC 7 – Former gas generator***

Low levels (below criteria) of ETPH and VOCs were reported in the samples collected from this REC. The reported ETPH and VOC concentrations appear to be indicative of a minor release in this REC. Additional investigations are warranted to delineate the degree and extent of the identified impacts.

- ***REC 8 – Razing of former on-Site structures***

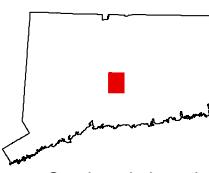
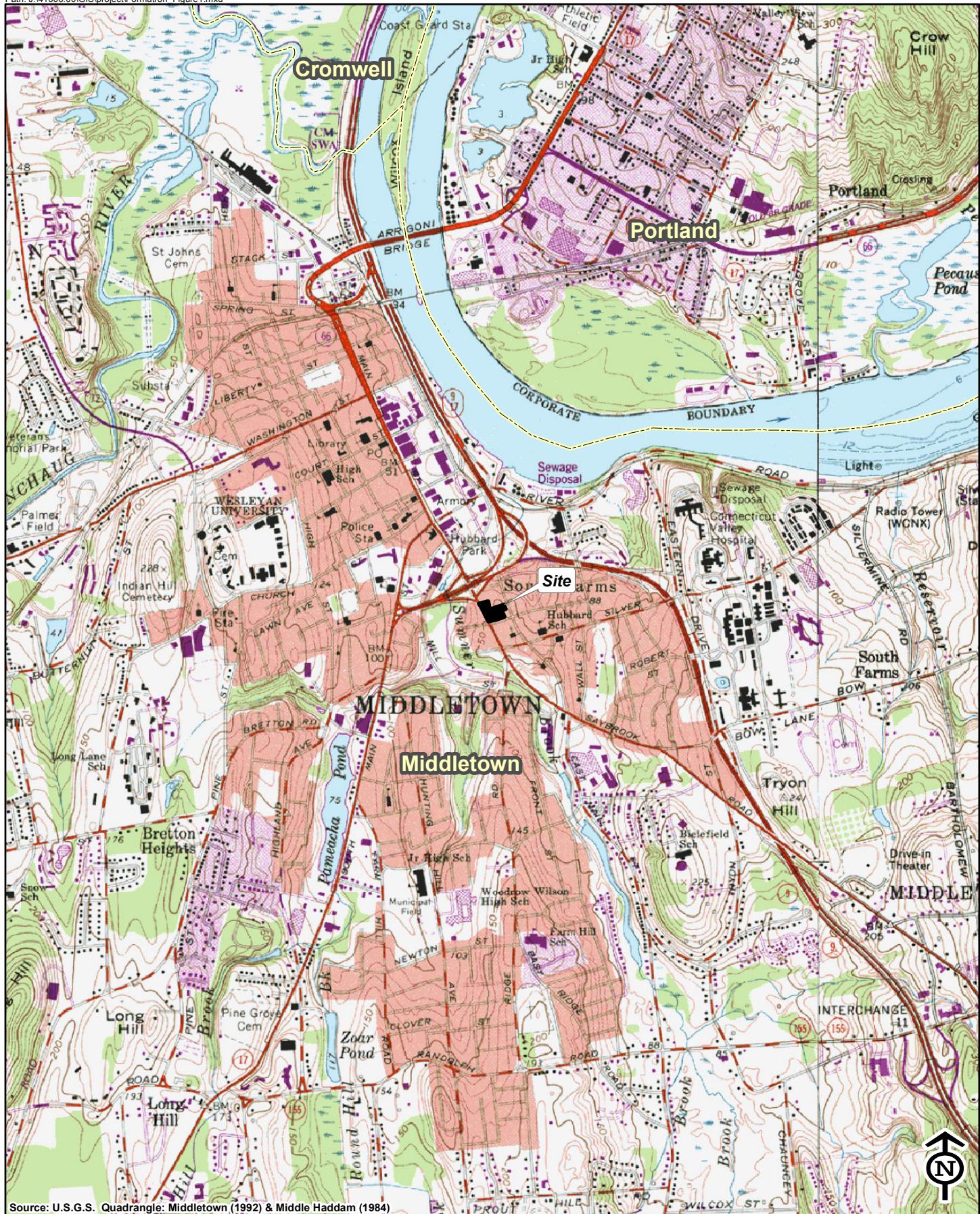
ETPH and VOCs impacts were reported identified in two (2) of the borings completed in this REC. These borings were completed adjacent to the off-Site gasoline/service station located at the intersection of East Main Street and Cooley Avenue. The impacts identified in soil and groundwater (MW-4) are characteristic of a petroleum/gasoline release. Additional investigations are warranted to delineate the degree and extent of the identified impacts.

- ***REC 9 – Potential impacts from off-Site releases***

Based upon the inferred direction of shallow groundwater flow, the soil boring/well completed in this REC is downgradient of a large portion of the Site. Therefore the impacts identified in this area are likely the result of on-Site releases. Additional investigations are warranted to delineate the degree and extent of the identified impacts in groundwater.

Figures

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1,000 500 0 1,000
Feet

Vanasse Hangen Brustlin, Inc.

Figure 1
Site Location Map
134 Main Street Extension
105 East Main Street
10 Cooley Avenue
Middletown, Connecticut

Quadrangle Location



Legend

◆ Wells

◆ Hand Boring

○ Soil Boring

□ Approximate Site Property Boundary

N

50 25 0 50 Feet

Vanasse Hangen Brustlin, Inc.
Formatron Phase II
134 Main Street Extension
105 East Main Street
10 Cooley Avenue
Middletown, Connecticut



Legend

- Wells
- Groundwater Contours
- Soil Boring
- Approximate Site Property Boundary
- (H) Hand Boring



50 25 0 50 Feet

Vanasse Hangen Brustlin, Inc.

Figure 3
Formatron
Inferred Groundwater Flow Map
2/23/2012
Middletown, Connecticut

Tables

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Table 1
Groundwater Elevation Summary
Formatron
Middletown, Connecticut

Well	Installation Date	Top of Casing	Installed Depth	Depth to Water 2/23/2012	Water Table Elevation 2/23/2012
MW-1	2/14/2012	100.00	17	15.91	84.09
MW-2	2/14/2012	104.67	17	11.86	92.81
MW-3	2/14/2012	109.89	18	9.26	100.63
MW-4	2/14/2012	107.42	18	10.12	97.30

Notes:

All measurements in feet.

Top of casing elevation is measured to the top of PVC riser.

All elevation measurements relative to an arbitrary local benchmark of 100'.

Table 2
Soil Analytical Summary
 Formaton
 Middletown, Connecticut

Parameter	RSR DEC		RSR PMC	REC #1		REC		
	I/C DEC	RES DEC		GB PMC	B-1 8-10ft	B-2 4-5ft	B-3 2-4ft	B-3 2-4ft DUP
Sampling Date					2/9/2012 10:15:00 AM	2/9/2012 10:45:00 AM	2/9/2012 8:30:00 AM	2/9/2012 8:45:00 AM
Sample Depth					8-10 Feet	4-5 Feet	2-4 Feet	2-4 Feet
Laboratory Report Number					12B0378	12B0378	12B0378	12B0378
CTDEP ETPH (mg/Kg dry)								
ETPH	2500	500	2500		270	ND (12)	240	270
SM 2540G (% WT)								
% Solids	~	~	~		78.6	85.4	90.3	84.7
SV-846 6010C (mg/Kg dry) Metals Digestion								
ANTIMONY	8200	27	~		ND (3.0)	ND (2.8)	ND (2.8)	ND (2.9)
Arsenic	10	10	~		ND (3.0)	ND (2.8)	ND (2.8)	ND (2.9)
Barium	140000	4700	~		100	69	52	72
BERYLLOUM	2	2	~		ND (0.30)	ND (0.28)	ND (0.28)	ND (0.29)
Cadmium	1000	34	~		ND (0.30)	ND (0.28)	ND (0.28)	ND (0.29)
Chromium	~	~	~		17	18	11	14
COPPER	76000	2500	~		19	14	16	20
LEAD	1000	400	~		26	12	6.3	7.6
Nickel	7500	1400	~		15	16	9.1	11
Selenium	10000	340	~		ND (6.0)	ND (5.6)	ND (5.5)	ND (5.9)
Silver	10000	340	~		ND (0.60)	ND (0.56)	ND (0.55)	ND (0.59)
THALLIUM	160	5.4	~		ND (3.0)	ND (2.8)	ND (2.8)	ND (2.9)
Vanadium	14000	470	~		30	35	29	34
Zinc	610000	20000	~		75	77	29	38
SV-846 7471B (mg/Kg dry) Metals Digestion								
Mercury	610	20	~		ND (0.031)	ND (0.029)	ND (0.028)	ND (0.029)
SV-846 8082A (mg/Kg dry)								
PCB 1016	10	1	~		ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
PCB 1221	10	1	~		ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
PCB 1232	10	1	~		ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
PCB 1242	10	1	~		ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
PCB 1248	10	1	~		ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
PCB 1254	10	1	~		ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
PCB 1260	10	1	~		ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
PCB 1262	10	1	~		ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
PCB 1268	10	1	~		ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
SV-846 8260C (mg/Kg dry)								
ACETONE	1000	500	140		ND (0.20)	ND (0.084)	ND (0.054)	ND (0.053)
ACRYLONITRILE	11	1.1	0.1		ND (0.012)	ND (0.0051)	ND (0.0032)	ND (0.0032)
BENZENE	200	21	0.2		ND (0.040)	ND (0.017)	ND (0.011)	ND (0.011)
BROMOBENZENE	~	~	~		ND (0.0040)	ND (0.0017)	ND (0.0011)	ND (0.0011)
BROMODICHLOROMETHANE	92	9.9	0.11		ND (0.0040)	ND (0.0017)	ND (0.0011)	ND (0.0011)
BROMOFORM	720	78	0.8		ND (0.0040)	ND (0.0017)	ND (0.0011)	ND (0.0011)
BROMOMETHANE	1000	95	2		ND (0.020)	ND (0.0084)	ND (0.0054)	ND (0.0053)
2-BUTANONE (MEK)	1000	500	80		ND (0.080)	ND (0.034)	ND (0.022)	ND (0.021)
N-BUTYLBENZENE	1000	500	14		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
SEC-BUTYLBENZENE	1000	500	14		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
TERT-BUTYLBENZENE	1000	500	14		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
CARBON DISULFIDE	1000	500	140		ND (0.012)	ND (0.0051)	ND (0.0032)	ND (0.0032)
CARBON TETRACHLORIDE	44	4.7	1		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
CHLOROBENZENE	1000	500	20		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
CHLORODIBROMOMETHANE	68	7.3	0.1		ND (0.0020)	ND (0.0084)	ND (0.0054)	ND (0.0053)
CHLOROETHANE	~	~	~		ND (0.040)	ND (0.017)	ND (0.011)	ND (0.011)
CHLOROFORM	940	100	1.2		ND (0.0080)	ND (0.0034)	ND (0.0022)	ND (0.0021)
CHLOROMETHANE	440	47	0.54		ND (0.020)	ND (0.0084)	ND (0.0054)	ND (0.0053)
2-CHLORTOLUENE	~	~	~		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
4-CHLORTOLUENE	~	~	~		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
1,2-DIBROMO-3-CHLOROPROPANE	4.1	0.44	~		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
EDB	~	~	~		ND (0.0020)	ND (0.0084)	ND (0.0054)	ND (0.0053)
DIBROMOMETHANE	~	~	~		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
1,2-DICHLOROBENZENE	1000	500	3.1		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
1,3-DICHLOROBENZENE	1000	500	120		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
1,4-DICHLOROBENZENE	240	26	15		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
TRANS-1,4-DICHLORO-2-BUTENE	~	~	~		ND (0.0080)	ND (0.034)	ND (0.022)	ND (0.021)
DICHLORODIFLUOROMETHANE	~	~	~		ND (0.040)	ND (0.017)	ND (0.011)	ND (0.011)
1,1-DICHLOROETHANE	1000	500	14		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
1,2-DICHLOROETHANE	63	6.7	0.2		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
1,1-DICHLOROETHYLENE	9.5	1	1.4		ND (0.0080)	ND (0.034)	ND (0.022)	ND (0.021)
CIS-1,2-DICHLOROETHYLENE	1000	500	14		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
TRANS-1,2-DICHLOROETHYLENE	1000	500	20		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
1,2-DICHLOROPROPANE	84	9	1		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
1,3-DICHLOROPROPANE	~	~	~		ND (0.020)	ND (0.0084)	ND (0.0054)	ND (0.0053)
2,2-DICHLOROPROPANE	~	~	~		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
1,1-DICHLOROPROPENE	~	~	~		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
CIS-1,3-DICHLOROPROPENE	32	3.4	0.1		ND (0.0020)	ND (0.0084)	ND (0.0054)	ND (0.0053)
TRANS-1,3-DICHLOROPROPENE	32	3.4	0.1		ND (0.0020)	ND (0.0084)	ND (0.0054)	ND (0.0053)
ETHYLBENZENE	1000	500	10.1		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
HEXACHLOROBUTADIENE	73	7.9	1		ND (0.040)	ND (0.017)	ND (0.011)	ND (0.011)
2-HEXANONE	~	~	~		ND (0.040)	ND (0.017)	ND (0.011)	ND (0.011)
ISOPROPYLBENZENE	1000	500	132		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
P-ISOPROPYLTOLUENE	1000	500	41.8		ND (0.0040)	ND (0.017)	ND (0.011)	ND (0.011)
MTBE	1000	500	20		ND (0.080)	ND (0.034)	ND (0.022)	ND (0.021)
METHYLENE CHLORIDE	760	82	1		ND (0.040)	ND (0.017)	ND (0.011)	ND (0.011)
MIBK	1000	500	14		ND (0.040)	ND (0.017)	ND (0.011)	ND (0.011)
NAPHTHALENE	2500	1000	56		ND (0.0080)	ND (0.034)	ND (0.022)	ND (0.021)
N-PROPYLBENZENE	1000	500	14		ND (0.0040)	ND (0.017)		

Table 2
Soil Analytical Summary
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Parameter	RSR DEC		RSR PMC	#2			
	I/C DEC	RES DEC		B-4 2-4ft	B-4 2-4ft DUP	B-5 3ft	B-6 3ft
Sampling Date				2/13/2012 8:00:00 AM	2/13/2012 8:30:00 AM	2/9/2012 1:45:00 PM	2/9/2012 2:30:00 PM
Sample Depth				2-4 Feet	2-4 Feet	3- Feet	3- Feet
Laboratory Report Number				12B0425	12B0425	12B0378	12B0378
CTDEP ETPH (mg/Kg dry)							
ETPH	2500	500	2500	ND (11)	ND (11)	790	ND (11)
SM 2540G (% WT)							
% Solids	~	~	~	93.1	87.3	90.8	93.2
SV-846 6010C (mg/Kg dry) Metals Digestion							
ANTIMONY	8200	27	~	ND (2.6)	ND (2.8)	NT	NT
Arsenic	10	10	~	ND (2.6)	ND (2.8)	NT	NT
Barium	140000	4700	~	79	76	NT	NT
BERYLLIUM	2	2	~	ND (0.26)	ND (0.28)	NT	NT
Cadmium	1000	34	~	ND (0.26)	ND (0.28)	NT	NT
Chromium	~	~	~	23	22	NT	NT
COPPER	76000	2500	~	22	17	NT	NT
LEAD	1000	400	~	8.5	8.4	NT	NT
Nickel	7500	1400	~	20	18	NT	NT
Selenium	10000	340	~	ND (5.2)	ND (5.6)	NT	NT
Silver	10000	340	~	0.78	ND (0.56)	NT	NT
THALLIUM	160	5.4	~	ND (2.6)	ND (2.8)	NT	NT
Vanadium	14000	470	~	40	39	NT	NT
Zinc	610000	20000	~	48	45	NT	NT
SV-846 7471B (mg/Kg dry) Metals Digestion							
Mercury	610	20	~	ND (0.027)	ND (0.029)	NT	NT
SV-846 8082A (mg/Kg dry)							
PCB 1016	10	1	~	ND (0.11)	ND (0.11)	NT	NT
PCB 1221	10	1	~	ND (0.11)	ND (0.11)	NT	NT
PCB 1232	10	1	~	ND (0.11)	ND (0.11)	NT	NT
PCB 1242	10	1	~	ND (0.11)	ND (0.11)	NT	NT
PCB 1248	10	1	~	ND (0.11)	ND (0.11)	NT	NT
PCB 1254	10	1	~	ND (0.11)	ND (0.11)	NT	NT
PCB 1260	10	1	~	ND (0.11)	ND (0.11)	NT	NT
PCB 1262	10	1	~	ND (0.11)	ND (0.11)	NT	NT
PCB 1268	10	1	~	ND (0.11)	ND (0.11)	NT	NT
SV-846 8260C (mg/Kg dry)							
ACETONE	1000	500	140	ND (0.11)	ND (0.12)	NT	NT
ACRYLONITRILE	11	1.1	0.1	ND (0.0064)	ND (0.0072)	NT	NT
BENZENE	200	21	0.2	ND (0.0021)	ND (0.0024)	NT	NT
BROMOBENZENE	~	~	~	ND (0.0021)	ND (0.0024)	NT	NT
BROMODICHLOROMETHANE	92	9.9	0.11	ND (0.0021)	ND (0.0024)	NT	NT
BROMOFORM	720	78	0.8	ND (0.0021)	ND (0.0024)	NT	NT
BROMOMETHANE	1000	95	2	ND (0.011)	ND (0.012)	NT	NT
2-BUTANONE (MEK)	1000	500	80	ND (0.043)	ND (0.048)	NT	NT
N-BUTYLBENZENE	1000	500	14	ND (0.0021)	ND (0.0024)	NT	NT
SEC-BUTYLBENZENE	1000	500	14	ND (0.0021)	ND (0.0024)	NT	NT
TERT-BUTYLBENZENE	1000	500	14	ND (0.0021)	ND (0.0024)	NT	NT
CARBON DISULFIDE	1000	500	140	ND (0.0064)	ND (0.0072)	NT	NT
CARBON TETRACHLORIDE	44	4.7	1	ND (0.021)	ND (0.024)	NT	NT
CHLOROBENZENE	1000	500	20	ND (0.0021)	ND (0.0024)	NT	NT
CHLORODIBROMOMETHANE	68	7.3	0.1	ND (0.0011)	ND (0.0012)	NT	NT
CHLOROETHANE	~	~	~	ND (0.021)	ND (0.024)	NT	NT
CHLOROFORM	940	100	1.2	ND (0.0043)	ND (0.0048)	NT	NT
CHLOROMETHANE	440	47	0.54	ND (0.011)	ND (0.012)	NT	NT
2-CHLORTOLUENE	~	~	~	ND (0.0021)	ND (0.0024)	NT	NT
4-CHLORTOLUENE	~	~	~	ND (0.0021)	ND (0.0024)	NT	NT
1,2-DIBROMO-3-CHLOROPROPANE	4.1	0.44	~	ND (0.0021)	ND (0.0024)	NT	NT
EDB	~	~	~	ND (0.0011)	ND (0.0012)	NT	NT
DIBROMOMETHANE	~	~	~	ND (0.0021)	ND (0.0024)	NT	NT
1,2-DICHLOROBENZENE	1000	500	3.1	ND (0.0021)	ND (0.0024)	NT	NT
1,3-DICHLOROBENZENE	1000	500	120	ND (0.0021)	ND (0.0024)	NT	NT
1,4-DICHLOROBENZENE	240	26	15	ND (0.0021)	ND (0.0024)	NT	NT
TRANS-1,4-DICHLORO-2-BUTENE	~	~	~	ND (0.0043)	ND (0.0048)	NT	NT
DICHLORODIFLUOROMETHANE	~	~	~	ND (0.021)	ND (0.024)	NT	NT
1,1-DICHLOROETHANE	1000	500	14	ND (0.0021)	ND (0.0024)	NT	NT
1,2-DICHLOROETHANE	63	6.7	0.2	ND (0.0021)	ND (0.0024)	NT	NT
1,1-DICHLOROETHYLENE	9.5	1	1.4	ND (0.0043)	ND (0.0048)	NT	NT
CIS-1,2-DICHLOROETHYLENE	1000	500	14	ND (0.0021)	ND (0.0024)	NT	NT
TRANS-1,2-DICHLOROETHYLENE	1000	500	20	ND (0.0021)	ND (0.0024)	NT	NT
1,2-DICHLOROPROPANE	84	9	1	ND (0.0021)	ND (0.0024)	NT	NT
1,3-DICHLOROPROPANE	~	~	~	ND (0.0011)	ND (0.0012)	NT	NT
2,2-DICHLOROPROPANE	~	~	~	ND (0.0021)	ND (0.0024)	NT	NT
1,1-DICHLOROPROPENE	~	~	~	ND (0.0021)	ND (0.0024)	NT	NT
CIS-1,3-DICHLOROPROPENE	32	3.4	0.1	ND (0.0011)	ND (0.0012)	NT	NT
TRANS-1,3-DICHLOROPROPENE	32	3.4	0.1	ND (0.0011)	ND (0.0012)	NT	NT
ETHYLBENZENE	1000	500	10.1	ND (0.0021)	ND (0.0024)	NT	NT
HEXACHLOROBUTADIENE	73	7.9	1	ND (0.0021)	ND (0.0024)	NT	NT
2-HEXANONE	~	~	~	ND (0.021)	ND (0.024)	NT	NT
ISOPROPYLBENZENE	1000	500	132	ND (0.0021)	ND (0.0024)	NT	NT
P-ISOPROPYLTOLUENE	1000	500	41.8	ND (0.0021)	ND (0.0024)	NT	NT
MTBE	1000	500	20	ND (0.0043)	ND (0.0048)	NT	NT
METHYLENE CHLORIDE	760	82	1	ND (0.021)	ND (0.024)	NT	NT
MIKB	1000	500	14	ND (0.021)	ND (0.024)	NT	NT
NAPHTHALENE	2500	1000	56	ND (0.0043)	ND (0.0048)	NT	NT
N-PROPYLBENZENE	1000	500	14	ND (0.0021)	ND (0.0024)	NT	NT
STYRENE	1000	500	20	ND (0.0021)	ND (0.0024)	NT	NT
1,1,1,2-TETRACHLOROETHANE	220	24	0.2	ND (0.0021)	ND (0.0024)	NT	NT
1,1,2,2-TETRACHLOROETHANE	29	3.1	0.1	ND (0.0011)	ND (0.0012)	NT	NT
TETRACHLOROETHYLENE	110	12	1	ND (0.0021)	ND (0.0024)	NT	NT
TETRAHYDROFURAN	~	~	~	ND (0.011)	ND (0.012)	NT	NT
TOLUENE	1000	500	67	ND (0.0021)	ND (0.0024)	NT	NT
1,2,3-TRICHLOROBENZENE	~	~	~	ND (0.0021)	ND (0.0024)	NT	NT
1,2,4-TRICHLOROBENZENE	2500	680	14	ND (0.0021)	ND (0.0024)	NT	NT
1,1,1-TRICHLOROETHANE	1000	500	40	ND (0.0021)	ND (0.0024)	NT	NT
1,1,2-TRICHLOROETHANE	100	11	1	ND (0.0021)	ND (0.0024)	NT	NT
TRICHLOROETHYLENE	520	56	1	ND (0.0021)	ND (0.0024)	NT	NT
TRICHLOROFLUOROMETHANE	1000	500	260	ND (0.011)	ND (0.012)	NT	NT
1,2,3-TRICHLOROPROPANE	~	~	~	ND (0.0021)	ND (0.0024)	NT	NT
1,2,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	~	~	~	ND (0.011)	ND (

Table 2
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Parameter	RSR DEC		RSR PMC	REC #3			
	I/C DEC	RES DEC		B-7 7ft	B-8 5-7ft	B-9 7-9ft	B-10 5-7ft
Sampling Date				2/9/2012 3:15:00 PM	2/13/2012 10:30:00 AM	2/13/2012 11:00:00 AM	2/13/2012 11:30:00 AM
Sample Depth				7- Feet 12B0378	5-7 Feet 12B0425	7-9 Feet 12B0425	5-7 Feet 12B0425
Laboratory Report Number							
CTDEP ETPH (mg/Kg dry)							
ETPH	2500	500	2500	ND (13)	33	ND (11)	61
SM 2540G (% WT)							
% Solids	~	~	~	77.4	96.5	88.5	84.3
SV-846 6010C (mg/Kg dry) Metals Digestion							
ANTIMONY	8200	27	~	NT	NT	NT	NT
Arsenic	10	10	~	NT	NT	NT	NT
Barium	140000	4700	~	NT	NT	NT	NT
BERYLLOUM	2	2	~	NT	NT	NT	NT
Cadmium	1000	34	~	NT	NT	NT	NT
Chromium	~	~	~	NT	NT	NT	NT
COPPER	76000	2500	~	NT	NT	NT	NT
LEAD	1000	400	~	NT	NT	NT	NT
Nickel	7500	1400	~	NT	NT	NT	NT
Selenium	10000	340	~	NT	NT	NT	NT
Silver	10000	340	~	NT	NT	NT	NT
THALLIUM	160	5.4	~	NT	NT	NT	NT
Vanadium	14000	470	~	NT	NT	NT	NT
Zinc	610000	20000	~	NT	NT	NT	NT
SV-846 7471B (mg/Kg dry) Metals Digestion							
Mercury	610	20	~	NT	NT	NT	NT
SV-846 8082A (mg/Kg dry)							
PCB 1016	10	1	~	NT	NT	NT	NT
PCB 1221	10	1	~	NT	NT	NT	NT
PCB 1232	10	1	~	NT	NT	NT	NT
PCB 1242	10	1	~	NT	NT	NT	NT
PCB 1248	10	1	~	NT	NT	NT	NT
PCB 1254	10	1	~	NT	NT	NT	NT
PCB 1260	10	1	~	NT	NT	NT	NT
PCB 1262	10	1	~	NT	NT	NT	NT
PCB 1268	10	1	~	NT	NT	NT	NT
SV-846 8260C (mg/Kg dry)							
ACETONE	1000	500	140	NT	NT	NT	NT
ACRYLONITRILE	11	1.1	0.1	NT	NT	NT	NT
BENZENE	200	21	0.2	NT	NT	NT	NT
BROMOBENZENE	~	~	~	NT	NT	NT	NT
BROMODICHLOROMETHANE	92	9.9	0.11	NT	NT	NT	NT
BROMOFORM	720	78	0.8	NT	NT	NT	NT
BROMOMETHANE	1000	95	2	NT	NT	NT	NT
2-BUTANONE (MEK)	1000	500	80	NT	NT	NT	NT
N-BUTYLBENZENE	1000	500	14	NT	NT	NT	NT
SEC-BUTYLBENZENE	1000	500	14	NT	NT	NT	NT
TERT-BUTYLBENZENE	1000	500	14	NT	NT	NT	NT
CARBON DISULFIDE	1000	500	140	NT	NT	NT	NT
CARBON TETRACHLORIDE	44	4.7	1	NT	NT	NT	NT
CHLOROBENZENE	1000	500	20	NT	NT	NT	NT
CHLORODIBROMOMETHANE	68	7.3	0.1	NT	NT	NT	NT
CHLOROETHANE	~	~	~	NT	NT	NT	NT
CHLOROFORM	940	100	1.2	NT	NT	NT	NT
CHLOROMETHANE	440	47	0.54	NT	NT	NT	NT
2-CHLOROTOLUENE	~	~	~	NT	NT	NT	NT
4-CHLOROTOLUENE	~	~	~	NT	NT	NT	NT
1,2-DIBROMO-3-CHLOROPROPANE	4.1	0.44	~	NT	NT	NT	NT
EDB	~	~	~	NT	NT	NT	NT
DIBROMOMETHANE	~	~	~	NT	NT	NT	NT
1,2-DICHLOROBENZENE	1000	500	3.1	NT	NT	NT	NT
1,3-DICHLOROBENZENE	1000	500	120	NT	NT	NT	NT
1,4-DICHLOROBENZENE	240	26	15	NT	NT	NT	NT
TRANS-1,4-DICHLORO-2-BUTENE	~	~	~	NT	NT	NT	NT
DICHLORODIFLUOROMETHANE	~	~	~	NT	NT	NT	NT
1,1-DICHLOROETHANE	1000	500	14	NT	NT	NT	NT
1,2-DICHLOROETHANE	63	6.7	0.2	NT	NT	NT	NT
1,1-DICHLOROETHYLENE	9.5	1	1.4	NT	NT	NT	NT
CIS-1,2-DICHLOROETHYLENE	1000	500	14	NT	NT	NT	NT
TRANS-1,2-DICHLOROETHYLENE	1000	500	20	NT	NT	NT	NT
1,2-DICHLOROPROPANE	84	9	1	NT	NT	NT	NT
1,3-DICHLOROPROPANE	~	~	~	NT	NT	NT	NT
2,2-DICHLOROPROPANE	~	~	~	NT	NT	NT	NT
1,1-DICHLOROPROPENE	~	~	~	NT	NT	NT	NT
CIS-1,3-DICHLOROPROPENE	32	3.4	0.1	NT	NT	NT	NT
TRANS-1,3-DICHLOROPROPENE	32	3.4	0.1	NT	NT	NT	NT
ETHYLBENZENE	1000	500	10.1	NT	NT	NT	NT
HEXACHLOROBUTADIENE	73	7.9	1	NT	NT	NT	NT
2-HEXANONE	~	~	~	NT	NT	NT	NT
ISOPROPYLBENZENE	1000	500	132	NT	NT	NT	NT
P-ISOPROPYLTOLUENE	1000	500	41.8	NT	NT	NT	NT
MTBE	1000	500	20	NT	NT	NT	NT
METHYLENE CHLORIDE	760	82	1	NT	NT	NT	NT
MIBK	1000	500	14	NT	NT	NT	NT
NAPHTHALENE	2500	1000	56	NT	NT	NT	NT
N-PROPYLBENZENE	1000	500	14	NT	NT	NT	NT
STYRENE	1000	500	20	NT	NT	NT	NT
1,1,1,2-TETRACHLOROETHANE	220	24	0.2	NT	NT	NT	NT
1,1,2,2-TETRACHLOROETHANE	29	3.1	0.1	NT	NT	NT	NT
TETRACHLOROETHYLENE	110	12	1	NT	NT	NT	NT
TETRAHYDROFURAN	~	~	~	NT	NT	NT	NT
TOLUENE	1000	500	67	NT	NT	NT	NT
1,2,3-TRICHLOROBENZENE	~	~	~	NT	NT	NT	NT
1,2,4-TRICHLOROBENZENE	2500	680	14	NT	NT	NT	NT
1,1,1-TRICHLOROETHANE	1000	500	40	NT	NT	NT	NT
1,1,2-TRICHLOROETHANE	100	11	1	NT	NT	NT	NT
TRICHLOROETHYLENE	520	56	1	NT	NT	NT	NT
TRICHLOROFLUOROMETHANE	1000	500	260	NT	NT	NT	NT
1,2,3-TRICHLOROPROPANE	~	~	~	NT	NT	NT	NT
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	~	~	~	NT	NT	NT	NT
1,2,4-TRIMETHYLBENZENE	1000	500	70	NT	NT	NT	NT
1,3,5-TRIMETHYLBENZENE	1000	500	70	NT	NT	NT	NT
VINYL CHLORIDE	3	0.32	0.4	NT	NT	NT	NT
M/P-XYLENE	1000	500	19.5	NT	NT	NT	NT
O-XYLENE	1000	500	19.5	NT	NT	NT	NT
SV-846 8270D (mg/Kg dry)							
ACENAPHTHENE	2500	1000	84	ND (0.22)	ND (0.17)	ND (0.19)	ND (0.40)
ACENAPHTHYLENE	2500	1000	84	ND (0.22)	ND (0.17)	ND (0.19)	0.58
ANTHRACENE	2500	1000	400	ND (0.22)	ND (0.17)	ND (0.19)	1.8
BENZO(A)ANTHRACENE	7.8	1	1	ND (0.22)	ND (0.17)	ND (0.19)	3.1
BENZO(A)PYRENE	1	1	1	ND (0.22)	ND (0.17)	ND (0.19)	2.3
BENZO(B)FLUORANTHENE	7.8	1	1	ND (0.22)	ND (0.17)	ND (0.19)	3.0
BENZO(G,H,I)PERYLENE	2500	1000	42	ND (0.22)	ND (0.17)	ND (0.19)	1.6
BENZO(K)FLUORANTHENE	78	8.4	1	ND (0.22)	ND (0		

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Parameter	RSR DEC		RSR PMC	REC #4	REC #5	REC #6	
	I/C DEC	RES DEC		GB PMC	HA-1 0-0.5ft	HA-2 0-0.5ft	B-11 2-4ft
Sampling Date					2/13/2012 1:30:00 PM	2/13/2012 2:30:00 PM	2/13/2012 12:15:00 PM
Sample Depth					0-6 Inches	0-6 Inches	0-2 Feet
Laboratory Report Number					12B0425	12B0425	12B0378
CTDEP ETPH (mg/Kg dry)							
ETPH	2500	500	2500	4300	39	21	88
SM 2540G (% WT)							
% Solids	~	~	~		39.2	86.2	94.4
SV-846 6010C (mg/Kg dry) Metals Digestion							
ANTIMONY	8200	27	~		13	ND (2.8)	ND (2.6)
Arsenic	10	10	~		ND (6.0)	ND (2.8)	ND (2.6)
Barium	140000	4700	~		160	55	47
BERYLLOUM	2	2	~		ND (0.60)	ND (0.28)	ND (0.26)
Cadmium	1000	34	~		2.0	0.61	0.28
Chromium	~	~	~		92	12	18
COPPER	76000	2500	~		180	17	120
LEAD	1000	400	~		410	30	21
Nickel	7500	1400	~		460	11	52
Selenium	10000	340	~		ND (12)	ND (5.6)	ND (5.2)
Silver	10000	340	~		ND (1.2)	ND (0.56)	ND (0.51)
THALLIUM	160	5.4	~		ND (6.0)	ND (2.8)	ND (2.6)
Vanadium	14000	470	~		58	24	19
Zinc	610000	20000	~		500	140	130
SV-846 7471B (mg/Kg dry) Metals Digestion							
Mercury	610	20	~		0.36	0.058	0.044
SV-846 8082A (mg/Kg dry)							
PCB 1016	10	1	~		ND (0.25)	ND (0.11)	ND (0.10)
PCB 1221	10	1	~		ND (0.25)	ND (0.11)	ND (0.10)
PCB 1232	10	1	~		ND (0.25)	ND (0.11)	ND (0.10)
PCB 1242	10	1	~		ND (0.25)	ND (0.11)	ND (0.10)
PCB 1248	10	1	~		ND (0.25)	ND (0.11)	ND (0.10)
PCB 1254	10	1	~		ND (0.25)	ND (0.11)	ND (0.10)
PCB 1260	10	1	~		ND (0.25)	ND (0.11)	ND (0.10)
PCB 1262	10	1	~		ND (0.25)	ND (0.11)	ND (0.10)
PCB 1268	10	1	~		ND (0.25)	ND (0.11)	ND (0.10)
SV-846 8260C (mg/Kg dry)							
ACETONE	1000	500	140		ND (0.18)	ND (0.051)	ND (0.12)
ACRYLONITRILE	11	1.1	0.1		ND (0.011)	ND (0.0030)	ND (0.0074)
BENZENE	200	21	0.2		ND (0.037)	ND (0.010)	ND (0.0025)
BROMOBENZENE	~	~	~		ND (0.0037)	ND (0.0010)	ND (0.0025)
BROMODICHLOROMETHANE	92	9.9	0.11		ND (0.0037)	ND (0.0010)	ND (0.0025)
BROMOFORM	720	78	0.8		ND (0.0037)	ND (0.0010)	ND (0.0025)
BROMOMETHANE	1000	95	2		ND (0.018)	ND (0.0051)	ND (0.012)
2-BUTANONE (MEK)	1000	500	80		ND (0.074)	ND (0.020)	ND (0.049)
N-BUTYLBENZENE	1000	500	14		ND (0.0037)	ND (0.010)	ND (0.0025)
SEC-BUTYLBENZENE	1000	500	14		ND (0.0037)	ND (0.010)	ND (0.0025)
TERT-BUTYLBENZENE	1000	500	14		ND (0.0037)	ND (0.010)	ND (0.0025)
CARBON DISULFIDE	1000	500	140		0.033	ND (0.030)	ND (0.0074)
CARBON TETRACHLORIDE	44	4.7	1		ND (0.037)	ND (0.010)	ND (0.0025)
CHLOROBENZENE	1000	500	20		ND (0.0037)	ND (0.010)	ND (0.0025)
CHLORODIBROMOMETHANE	68	7.3	0.1		ND (0.0018)	ND (0.0051)	ND (0.012)
CHLOROETHANE	~	~	~		ND (0.037)	ND (0.010)	ND (0.025)
CHLOROFORM	940	100	1.2		ND (0.0074)	ND (0.0020)	ND (0.0049)
CHLOROMETHANE	440	47	0.54		ND (0.018)	ND (0.0051)	ND (0.012)
2-CHLORTOLUENE	~	~	~		ND (0.0037)	ND (0.010)	ND (0.0025)
4-CHLORTOLUENE	~	~	~		ND (0.0037)	ND (0.010)	ND (0.0025)
1,2-DIBROMO-3-CHLOROPROPANE	4.1	0.44	~		ND (0.0037)	ND (0.010)	ND (0.0025)
EDB	~	~	~		ND (0.0018)	ND (0.00051)	ND (0.0012)
DIBROMOMETHANE	~	~	~		ND (0.0037)	ND (0.010)	ND (0.0025)
1,2-DICHLOROBENZENE	1000	500	3.1		ND (0.0037)	ND (0.010)	ND (0.0025)
1,3-DICHLOROBENZENE	1000	500	120		ND (0.0037)	ND (0.010)	ND (0.0025)
1,4-DICHLOROBENZENE	240	26	15		ND (0.0037)	ND (0.010)	ND (0.0025)
TRANS-1,4-DICHLORO-2-BUTENE	~	~	~		ND (0.0074)	ND (0.020)	ND (0.0049)
DICHLORODIFLUOROMETHANE	~	~	~		ND (0.037)	ND (0.010)	ND (0.025)
1,1-DICHLOROETHANE	1000	500	14		ND (0.0037)	ND (0.010)	ND (0.0025)
1,2-DICHLOROETHANE	63	6.7	0.2		ND (0.0037)	ND (0.010)	ND (0.0025)
1,1-DICHLOROETHYLENE	9.5	1	1.4		ND (0.0074)	ND (0.020)	ND (0.0049)
CIS-1,2-DICHLOROETHYLENE	1000	500	14		ND (0.0037)	ND (0.010)	ND (0.0025)
TRANS-1,2-DICHLOROETHYLENE	1000	500	20		ND (0.0037)	ND (0.010)	ND (0.0025)
1,2-DICHLOROPROPANE	84	9	1		ND (0.0037)	ND (0.010)	ND (0.0025)
1,3-DICHLOROPROPANE	~	~	~		ND (0.0018)	ND (0.00051)	ND (0.012)
2,2-DICHLOROPROPANE	~	~	~		ND (0.0037)	ND (0.010)	ND (0.0025)
1,1-DICHLOROPROPENE	~	~	~		ND (0.0037)	ND (0.010)	ND (0.0025)
CIS-1,3-DICHLOROPROPENE	32	3.4	0.1		ND (0.0018)	ND (0.00051)	ND (0.012)
TRANS-1,3-DICHLOROPROPENE	32	3.4	0.1		ND (0.0018)	ND (0.00051)	ND (0.012)
ETHYLBENZENE	1000	500	10.1		ND (0.0037)	ND (0.010)	ND (0.0025)
HEXACHLOROBUTADIENE	73	7.9	1		ND (0.0037)	ND (0.010)	ND (0.0025)
2-HEXANONE	~	~	~		ND (0.037)	ND (0.010)	ND (0.025)
ISOPROPYLBENZENE	1000	500	132		ND (0.0037)	ND (0.010)	ND (0.0025)
P-ISOPROPYLTOLUENE	1000	500	41.8		ND (0.0037)	ND (0.010)	ND (0.0025)
MTBE	1000	500	20		ND (0.0074)	ND (0.020)	ND (0.0049)
METHYLENE CHLORIDE	760	82	1		ND (0.037)	ND (0.010)	ND (0.025)
MIBK	1000	500	14		ND (0.037)	ND (0.010)	ND (0.025)
NAPHTHALENE	2500	1000	56		ND (0.0074)	ND (0.020)	ND (0.0049)
N-PROPYLBENZENE	1000	500	14		ND (0.0037)	ND (0.010)	ND (0.0025)
STYRENE	1000	500	20		ND (0.0037)	ND (0.010)	ND (0.0025)
1,1,2-TETRACHLOROETHANE	220	24	0.2		ND (0.037)	ND (0.010)	ND (0.0025)
1,1,2,2-TETRACHLOROETHANE	29	3.1	0.1		ND (0.0018)	ND (0.00051)	ND (0.012)
TETRACHLOROETHYLENE	110	12	1		ND (0.0037)	ND (0.010)	ND (0.0025)
TETRAHYDROFURAN	~	~	~		ND (0.018)	ND (0.0051)	ND (0.012)
TOLUENE	1000	500	67		ND (0.0037)	ND (0.010)	ND (0.0025)
1,2,3-TRICHLOROBENZENE	~	~	~		ND (0.0037)	ND (0.010)	ND (0.0025)
1,2,4-TRICHLOROBENZENE	2500	680	14		ND (0.0037)	ND (0.010)	ND (0.0025)
1,1,1-TRICHLOROETHANE	1000	500	40		ND (0.0037)	ND (0.010)	ND (0.0025)
1,1,2-TRICHLOROETHANE	100	11	1		ND (0.0037)	ND (0.010)	ND (0.0025)
TRICHLOROETHYLENE	520	56	1		ND (0.0037)</		

Table 2
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Parameter	RSR DEC		RSR PMC	REC #7		REC #8	
	I/C DEC	RES DEC		GB PMC	B-12 3ft	B-13 4ft	B-15 4-5ft
Sampling Date					2/9/2012 11:45:00 AM	2/9/2012 11:15:00 AM	2/13/2012 9:30:00 AM
Sample Depth					3- Feet	4- Feet	4-5 Feet
Laboratory Report Number					12B0378	12B0425	12B0425
CTDEP ETPH (mg/Kg dry)							
ETPH	2500	500	2500		ND (12)	ND (13)	ND (12)
SM 2540G (% WT)							2900
% Solids	~	~	~		80.6	78.6	82.2
SV-846 6010C (mg/Kg dry) Metals Digestion							
ANTIMONY	8200	27	~		ND (3.1)	ND (3.0)	ND (2.9)
Arsenic	10	10	~		ND (3.1)	ND (3.0)	ND (2.9)
Barium	140000	4700	~		71	67	55
BERYLLOUM	2	2	~		ND (0.31)	ND (0.30)	ND (0.29)
Cadmium	1000	34	~		ND (0.31)	ND (0.30)	ND (0.29)
Chromium	~	~	~		20	20	21
COPPER	76000	2500	~		23	16	15
LEAD	1000	400	~		30	8.1	7.8
Nickel	7500	1400	~		17	17	19
Selenium	10000	340	~		ND (6.2)	ND (6.0)	ND (5.9)
Silver	10000	340	~		ND (0.62)	ND (0.60)	ND (0.59)
THALLIUM	160	5.4	~		ND (3.1)	ND (3.0)	ND (2.9)
Vanadium	14000	470	~		35	35	36
Zinc	610000	20000	~		62	42	44
SV-846 7471B (mg/Kg dry) Metals Digestion							
Mercury	610	20	~		0.059	ND (0.031)	ND (0.030)
SV-846 8082A (mg/Kg dry)							
PCB 1016	10	1	~		NT	NT	ND (0.12)
PCB 1221	10	1	~		NT	NT	ND (0.12)
PCB 1232	10	1	~		NT	NT	ND (0.12)
PCB 1242	10	1	~		NT	NT	ND (0.12)
PCB 1248	10	1	~		NT	NT	ND (0.12)
PCB 1254	10	1	~		NT	NT	ND (0.12)
PCB 1260	10	1	~		NT	NT	ND (0.12)
PCB 1262	10	1	~		NT	NT	ND (0.12)
PCB 1268	10	1	~		NT	NT	ND (0.12)
SV-846 8260C (mg/Kg dry)							
ACETONE	1000	500	140		ND (0.11)	ND (0.16)	ND (0.14)
ACRYLONITRILE	11	1.1	0.1		ND (0.0065)	ND (0.0094)	ND (0.0085)
BENZENE	200	21	0.2		ND (0.0022)	ND (0.0031)	0.012
BROMOBENZENE	~	~	~		ND (0.0022)	ND (0.0031)	ND (0.0028)
BROMODICHLOROMETHANE	92	9.9	0.11		ND (0.0022)	ND (0.0031)	ND (0.0028)
BROMOFORM	720	78	0.8		ND (0.0022)	ND (0.0031)	ND (0.0028)
BROMOMETHANE	1000	95	2		ND (0.011)	ND (0.016)	ND (0.014)
2-BUTANONE (MEK)	1000	500	80		ND (0.043)	ND (0.063)	ND (0.056)
N-BUTYLBENZENE	1000	500	14		ND (0.0022)	ND (0.0031)	0.023
SEC-BUTYLBENZENE	1000	500	14		ND (0.0022)	ND (0.0031)	0.0063
TERT-BUTYLBENZENE	1000	500	14		ND (0.0022)	ND (0.0031)	ND (0.0028)
CARBON DISULFIDE	1000	500	140		ND (0.0065)	ND (0.0094)	ND (0.0085)
CARBON TETRACHLORIDE	44	4.7	1		ND (0.0022)	ND (0.0031)	ND (0.0028)
CHLOROBENZENE	1000	500	20		ND (0.0022)	ND (0.0031)	ND (0.0028)
CHLORODIBROMOMETHANE	68	7.3	0.1		ND (0.0011)	ND (0.0016)	ND (0.0014)
CHLOROETHANE	~	~	~		ND (0.022)	ND (0.031)	ND (0.028)
CHLOROFORM	940	100	1.2		ND (0.0043)	ND (0.0063)	ND (0.0056)
CHLOROMETHANE	440	47	0.54		ND (0.011)	ND (0.016)	ND (0.014)
2-CHLORTOLUENE	~	~	~		ND (0.0022)	ND (0.0031)	ND (0.0028)
4-CHLORTOLUENE	~	~	~		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,2-DIBROMO-3-CHLOROPROPANE	4.1	0.44	~		ND (0.0022)	ND (0.0031)	ND (0.0028)
EDB	~	~	~		ND (0.0011)	ND (0.0016)	ND (0.0014)
DIBROMOMETHANE	~	~	~		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,2-DICHLOROBENZENE	1000	500	3.1		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,3-DICHLOROBENZENE	1000	500	120		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,4-DICHLOROBENZENE	240	26	15		ND (0.0022)	ND (0.0031)	ND (0.0028)
TRANS-1,4-DICHLORO-2-BUTENE	~	~	~		ND (0.0043)	ND (0.0063)	ND (0.0056)
DICHLORODIFLUOROMETHANE	~	~	~		ND (0.022)	ND (0.031)	ND (0.028)
1,1-DICHLOROETHANE	1000	500	14		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,2-DICHLOROETHANE	63	6.7	0.2		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,1-DICHLOROETHYLENE	9.5	1	1.4		ND (0.0043)	ND (0.0063)	ND (0.0056)
CIS-1,2-DICHLOROETHYLENE	1000	500	14		ND (0.0022)	ND (0.0031)	ND (0.0028)
TRANS-1,2-DICHLOROETHYLENE	1000	500	20		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,2-DICHLOROPROPANE	84	9	1		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,3-DICHLOROPROPANE	~	~	~		ND (0.0011)	ND (0.0016)	ND (0.0014)
2,2-DICHLOROPROPANE	~	~	~		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,1-DICHLOROPROPENE	~	~	~		ND (0.0022)	ND (0.0031)	ND (0.0028)
CIS-1,3-DICHLOROPROPENE	32	3.4	0.1		ND (0.0011)	ND (0.0016)	ND (0.0014)
TRANS-1,3-DICHLOROPROPENE	32	3.4	0.1		ND (0.0011)	ND (0.0016)	ND (0.0014)
ETHYLBENZENE	1000	500	10.1		ND (0.0022)	ND (0.0031)	0.81
HEXACHLOROBUTADIENE	73	7.9	1		ND (0.0022)	ND (0.0031)	ND (0.0028)
2-HEXANONE	~	~	~		ND (0.022)	ND (0.031)	ND (0.028)
ISOPROPYLBENZENE	1000	500	132		ND (0.0022)	ND (0.0031)	0.033
P-ISOPROPYLTOLUENE	1000	500	41.8		ND (0.0022)	ND (0.0031)	0.0032
MTBE	1000	500	20		ND (0.0043)	ND (0.0063)	ND (0.0056)
METHYLENE CHLORIDE	760	82	1		ND (0.022)	ND (0.031)	ND (0.028)
MIBK	1000	500	14		ND (0.022)	ND (0.031)	ND (0.028)
NAPHTHALENE	2500	1000	56		ND (0.0043)	ND (0.0063)	0.12
N-PROPYLBENZENE	1000	500	14		ND (0.0022)	ND (0.0031)	0.10
STYRENE	1000	500	20		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,1,2-TETRACHLOROETHANE	220	24	0.2		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,1,2,2-TETRACHLOROETHANE	29	3.1	0.1		ND (0.0011)	ND (0.0016)	ND (0.0014)
TETRACHLOROETHYLENE	110	12	1		ND (0.0022)	ND (0.0031)	ND (0.0028)
TETRAHYDROFURAN	~	~	~		ND (0.011)	ND (0.016)	ND (0.014)
TOLUENE	1000	500	67		ND (0.0022)	ND (0.0031)	0.081
1,2,3-TRICHLOROBENZENE	~	~	~		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,2,4-TRICHLOROBENZENE	2500	680	14		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,1,1-TRICHLOROETHANE	1000	500	40		ND (0.0022)	ND (0.0031)	ND (0.0028)
1,1,2-TRICHLOROETHANE	100	11	1		ND (0.0022)	ND (0.0031)	ND (0.0028)
TRICHLOROETHYLENE	520	56	1		ND (0.0022)	ND (0.0031)	ND (0.0028)
TRICHLOROFLUOROMETHANE	1000	500					

Table 2
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Parameter	RSR DEC		GB PMC	B-16 5-7ft	REC #9
	I/C DEC	RES DEC			
Sampling Date				2/9/2012 9:30:00 AM	2/9/2012 1:15:00 PM
Sample Depth				5-7 Feet	3- Feet
Laboratory Report Number				12B0378	12B0378
CTDEP ETPH (mg/Kg dry)					
ETPH	2500	500	2500	260	ND (13)
SM 2540G (% Wt)					
% Solids	~	~	~	87.9	77.9
SW-846 6010C (mg/Kg dry) Metals Digestion					
ANTIMONY	8200	27	~	ND (2.7)	ND (3.0)
Arsenic	10	10	~	ND (2.7)	ND (3.0)
Barium	140000	4700	~	90	53
BERYLLOLUM	2	2	~	ND (0.27)	ND (0.30)
Cadmium	1000	34	~	0.38	ND (0.30)
Chromium	~	~	~	11	22
COPPER	76000	2500	~	40	19
LEAD	1000	400	~	65	8.8
Nickel	7500	1400	~	9.4	19
Selenium	10000	340	~	ND (5.5)	ND (6.1)
Silver	10000	340	~	ND (0.55)	ND (0.61)
THALLIUM	160	5.4	~	ND (2.7)	ND (3.0)
Vanadium	14000	470	~	20	39
Zinc	610000	20000	~	110	45
SW-846 7471B (mg/Kg dry) Metals Digestion					
Mercury	610	20	~	0.059	ND (0.032)
SW-846 8082A (mg/Kg dry)					
PCB 1016	10	1	~	ND (0.11)	NT
PCB 1221	10	1	~	ND (0.11)	NT
PCB 1232	10	1	~	ND (0.11)	NT
PCB 1242	10	1	~	ND (0.11)	NT
PCB 1248	10	1	~	ND (0.11)	NT
PCB 1254	10	1	~	ND (0.11)	NT
PCB 1260	10	1	~	ND (0.11)	NT
PCB 1262	10	1	~	ND (0.11)	NT
PCB 1268	10	1	~	ND (0.11)	NT
SW-846 8260C (mg/Kg dry)					
ACETONE	1000	500	140	ND (0.15)	ND (0.14)
ACRYLONITRILE	11	1.1	0.1	ND (0.0088)	ND (0.0086)
BENZENE	200	21	0.2	ND (0.029)	ND (0.029)
BROMOBENZENE	~	~	~	ND (0.029)	ND (0.029)
BROMODICHLOROMETHANE	92	9.9	0.11	ND (0.029)	ND (0.029)
BROMOFORM	720	78	0.8	ND (0.029)	ND (0.029)
BROMOMETHANE	1000	95	2	ND (0.015)	ND (0.014)
2-BUTANONE (MEK)	1000	500	80	ND (0.059)	ND (0.057)
N-BUTYLBENZENE	1000	500	14	ND (0.029)	ND (0.029)
SEC-BUTYLBENZENE	1000	500	14	ND (0.029)	ND (0.029)
TERT-BUTYLBENZENE	1000	500	14	ND (0.029)	ND (0.029)
CARBON DISULFIDE	1000	500	140	ND (0.088)	ND (0.086)
CARBON TETRACHLORIDE	44	4.7	1	ND (0.029)	ND (0.029)
CHLOROBENZENE	1000	500	20	ND (0.029)	ND (0.029)
CHLORODIBROMOMETHANE	68	7.3	0.1	ND (0.015)	ND (0.014)
CHLOROETHANE	~	~	~	ND (0.029)	ND (0.029)
CHLOROFORM	940	100	1.2	ND (0.0059)	ND (0.0057)
CHLOROMETHANE	440	47	0.54	ND (0.015)	ND (0.014)
2-CHLOROTOLUENE	~	~	~	ND (0.029)	ND (0.029)
4-CHLOROTOLUENE	~	~	~	ND (0.029)	ND (0.029)
1,2-DIBROMO-3-CHLOROPROPANE	4.1	0.44	~	ND (0.029)	ND (0.029)
EDB	~	~	~	ND (0.015)	ND (0.014)
DIBROMOMETHANE	~	~	~	ND (0.029)	ND (0.029)
1,2-DICHLOROBENZENE	1000	500	3.1	ND (0.029)	ND (0.029)
1,3-DICHLOROBENZENE	1000	500	120	ND (0.029)	ND (0.029)
1,4-DICHLOROBENZENE	240	26	15	ND (0.029)	ND (0.029)
TRANS-1,4-DICHLORO-2-BUTENE	~	~	~	ND (0.059)	ND (0.057)
DICHLORODIFLUOROMETHANE	~	~	~	ND (0.029)	ND (0.029)
1,1-DICHLOROETHANE	1000	500	14	ND (0.029)	ND (0.029)
1,2-DICHLOROETHANE	63	6.7	0.2	ND (0.029)	ND (0.029)
1,1-DICHLOROETHYLENE	9.5	1	1.4	ND (0.059)	ND (0.057)
CIS-1,2-DICHLOROETHYLENE	1000	500	14	ND (0.029)	ND (0.029)
TRANS-1,2-DICHLOROETHYLENE	1000	500	20	ND (0.029)	ND (0.029)
1,2-DICHLOROPROPANE	84	9	1	ND (0.029)	ND (0.029)
1,3-DICHLOROPROPANE	~	~	~	ND (0.015)	ND (0.014)
2,2-DICHLOROPROPANE	~	~	~	ND (0.029)	ND (0.029)
1,1-DICHLOROPROPENE	~	~	~	ND (0.029)	ND (0.029)
CIS-1,3-DICHLOROPROPENE	32	3.4	0.1	ND (0.0015)	ND (0.0014)
TRANS-1,3-DICHLOROPROPENE	32	3.4	0.1	ND (0.0015)	ND (0.0014)
ETHYLBENZENE	1000	500	10.1	ND (0.029)	ND (0.029)
HEXACHLOROBUTADIENE	73	7.9	1	ND (0.029)	ND (0.029)
2-HEXANONE	~	~	~	ND (0.029)	ND (0.029)
ISOPROPYLBENZENE	1000	500	132	ND (0.029)	ND (0.029)
P-ISOPROPYLTOLUENE	1000	500	41.8	ND (0.029)	ND (0.029)
MTBE	1000	500	20	ND (0.059)	ND (0.057)
METHYLENE CHLORIDE	760	82	1	ND (0.029)	ND (0.029)
MIBK	1000	500	14	ND (0.029)	ND (0.029)
NAPHTHALENE	2500	1000	56	ND (0.059)	ND (0.057)
N-PROPYLBENZENE	1000	500	14	ND (0.029)	ND (0.029)
STYRENE	1000	500	20	ND (0.029)	ND (0.029)
1,1,1,2-TETRACHLOROETHANE	220	24	0.2	ND (0.029)	ND (0.029)
1,1,2,2-TETRACHLOROETHANE	29	3.1	0.1	ND (0.015)	ND (0.014)
TETRACHLOROETHYLENE	110	12	1	ND (0.029)	ND (0.029)
TETRAHYDROFURAN	~	~	~	ND (0.015)	ND (0.014)
TOLUENE	1000	500	67	ND (0.029)	ND (0.029)
1,2,3-TRICHLOROBENZENE	~	~	~	ND (0.029)	ND (0.029)
1,2,4-TRICHLOROBENZENE	2500	680	14	ND (0.029)	ND (0.029)
1,1,1-TRICHLOROETHANE	1000	500	40	ND (0.029)	ND (0.029)
1,1,2-TRICHLOROETHANE	100	11	1	ND (0.029)	ND (0.029)
TRICHLOROETHYLENE	520	56	1	ND (0.029)	ND (0.029)
TRICHLOROFLUOROMETHANE	1000	500	260	ND (0.015)	ND (0.014)
1,2,3-TRICHLOROPROPANE	~	~	~	ND (0.029)	ND (0.029)
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	~	~	~	ND (0.015)	ND (0.014)
1,2,4-TRIMETHYLBENZENE	1000	500	70	ND (0.029)	ND (0.029)
1,3,5-TRIMETHYLBENZENE	1000	500	70	ND (0.029)	ND (0.029)
VINYL CHLORIDE	3	0.32	0.4	ND (0.015)	ND (0.014)
M/P-XYLENE	1000	500	19.5	ND (0.059)	ND (0.057)
O-XYLENE	1000	500	19.5	ND (0.029)	ND (0.029)
SW-846 8270D (mg/Kg dry)					
ACENAPHTHENE	2500	1000	84	ND (0.38)	ND (0.22)
ACENAPHTHYLENE	2500	1000	84	ND (0.38)	ND (0.22)
ANTHRACENE	2500	1000	400	ND (0.38)	ND (0.22)
BENZO(A)ANTHRACENE	7.8	1	1	0.88	ND (0.22)
BENZO(A)PYRENE	1	1	1	0.79	ND (0.22)
BENZO(B)FLUORANTHENE	7.8	1	1	0.99	ND (0.22)
BENZO(G,H,I)PERYLENE	2500	1000	42	0.68	ND (0.22)
BENZO(K)FLUORANTHENE	78	8.4	1	ND (0.38)	ND (0.22)
CHRYSENE	780	84	1	0.88	ND (0.22)
DIBENZ(A,H)ANTHRACENE	1	1	1	ND (0.38)	ND (0.22)
FLUORANTHENE	2500	1000	56	1.8	ND (0.22)
FLUORENE	2500	1000	56	ND (0.38)	ND (0.22)
INDENO(1,2,3-CD)PYRENE	7.8	1	1	0.75	ND (0.22)
2-METHYLNAPHTHALENE	2500	474	9.8	ND (0.38)	ND (0.22)
NAPHTHALENE	2500	1000	56	ND (0.38)	ND (0.22)
PHENANTHRENE	2500	1000	40	1.4	ND (0.22)
PYRENE	2500	1000	40	2.0	ND (0.22)

Table 3
Groundwater Analytical Summary
 Formtron
 Middletown, Connecticut

Parameter	SAMPLING LOCATION								
	I/C VC	RES VC	SWPC	MW-1	MW-1 Dup	MW-2	MW-3	MW-4	Trip Blank
Sampling Date				2/23/2012 10:00:00 AM	2/23/2012 10:15:00 AM	2/23/2012 11:30:00 AM	2/23/2012 9:00:00 AM	2/23/2012 1:00:00 PM	2/23/2012
Sample Depth				0-Feet	0-Feet	0-Feet	0-Feet	0-Feet	
Laboratory Report Number				12B0835	12B0835	12B0835	12B0835	12B0835	
CTDEP TPH (mg/L)									
TPH	~	~	~	0.44	0.39	0.62	ND (0.075)	0.79	NT
SV-846 6020A (µg/L)									
ANTIMONY	~	~	86000	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NT
Arsenic	~	~	4	ND (2.0)	ND (2.0)	ND (2.0)	8.2	5.8	NT
Barium	~	~	~	ND (50)	ND (50)	ND (50)	340	ND (50)	NT
BERYLLIUM	~	~	4	ND (2.0)	ND (2.0)	ND (2.0)	2.3	ND (2.0)	NT
Cadmium	~	~	6	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	NT
Chromium	~	~	~	ND (5.0)	ND (5.0)	ND (5.0)	77	5.2	NT
COPPER	~	~	97	ND (25)	ND (25)	ND (25)	97	ND (25)	NT
LEAD	~	~	13	ND (5.0)	ND (5.0)	ND (5.0)	19	ND (5.0)	NT
Nickel	~	~	880	ND (25)	30	ND (25)	97	ND (25)	NT
Selenium	~	~	50	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NT
Silver	~	~	12	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	NT
THALLIUM	~	~	63	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	NT
Vanadium	~	~	~	ND (25)	ND (25)	ND (25)	110	ND (25)	NT
Zinc	~	~	123	ND (50)	ND (50)	220	ND (50)	ND (50)	NT
SV-846 7470A (mg/L)									
Mercury	~	~	0.0004	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	NT
SV-846 8260C (µg/L)									
ACETONE	50000	50000	~	7.3	8.7	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
ACRYLONITRILE	~	~	20	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
BENZENE	310	130	710	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
BROMOBENZENE	~	~	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
BROMODICHLOROMETHANE	73	2.3	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
BROMOFORM	2300	75	10800	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
BROMOMETHANE	~	~	~	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
2-BUTANONE (MEK)	50000	50000	~	45	48	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
N-BUTYLBENZENE	21000	1500	~	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.7	ND (1.0)
SEC-BUTYLBENZENE	20000	1500	~	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	7.4	ND (1.0)
CARBON DISULFIDE	~	~	~	14	13	6.0	ND (5.0)	5.4	ND (5.0)
CARBON TETRACHLORIDE	14	5.3	132	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
CHLOROBENZENE	23000	1800	42000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
CHLORODIBROMOMETHANE	~	~	1020	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
CHLOROETHANE	29000	12000	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
CHLOROFORM	62	26	14100	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
CHLORMETHANE	5500	390	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
2-CHLORTOLUENE	~	~	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
4-CHLORTOLUENE	~	~	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2-DIBROMO-3-CHLOROPROPANE	~	~	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
EDB	~	~	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
DIBROMOMETHANE	~	~	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2-DICHLOROBENZENE	50000	5100	170000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,3-DICHLOROBENZENE	50000	4300	26000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,4-DICHLOROBENZENE	3400	1400	26000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
TRANS-1,4-DICHLORO-2-BUTENE	~	~	~	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
DICHLORODIFLUOROMETHANE	1200	93	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,1-DICHLOROETHANE	41000	3000	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2-DICHLOROETHANE	68	6.5	2970	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,1-DICHLOROETHYLENE	920	190	96	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
CIS-1,2-DICHLOROETHYLENE	11000	830	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
TRANS-1,2-DICHLOROETHYLENE	13000	1000	~	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-DICHLOROPROpane	58	7.4	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,3-DICHLOROPROPANE	~	~	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
2,2-DICHLOROPROPANE	~	~	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,1-DICHLOROPROPENE	~	~	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
CIS-1,3-DICHLOROPROPENE	360	11	34000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
TRANS-1,3-DICHLOROPROPENE	360	11	34000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
ETHYLBENZENE	36000	2700	58000	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	2.9	ND (0.50)
HEXAChLOROBUTADIENE	~	~	~	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
2-HEXANONE	~	~	~	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
ISOPROPYLBENZENE	6800	2800	~	ND (0.50)	ND (0.50)	ND (0.50)	0.74	14	ND (0.50)
P-ISOPROPYLTOLUENE	22000	1600	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	1.7	ND (0.50)
MTBE	50000	21000	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	1.2	ND (0.50)
METHYLENE CHLORIDE	2200	160	48000	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
MBK	50000	13000	~	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
NAPHTHALENE	~	~	~	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	10	ND (1.0)
N-PROPYLBENZENE	~	~	~	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
STYRENE	42000	3100	~	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,1,2-TETRAChLOROETHANE	64	2	~	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,1,2,2-TETRAChLOROETHANE	54	1.8	110	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)

Table 4
Soil Data Validation
 Formaton
 Middletown, Connecticut

Parameter	RSR DEC		RSR PMC				
	I/C DEC	RES DEC		B-4 2-4ft	B-4 2-4ft DUP	Relative Percent Difference (RPD)	B-3 2-4ft
Sampling Date				2/13/2012 8:00:00 AM	2/13/2012 8:30:00 AM		
Sample Depth				2-4 Feet	2-4 Feet		
Laboratory Report Number				12B0425	12B0425		
CTDEP ETPH (mg/Kg dry)							
ETPH	2500	500	2500	ND (11)	ND (11)		240
SM 2540G (% WT)							
% Solids	~	~	~	93.1	87.3		90.3
SV-846 6010C (mg/Kg dry) Metals Digestion							
ANTIMONY	8200	27	~	ND (2.6)	ND (2.8)		ND (2.8)
Arsenic	10	10	~	ND (2.6)	ND (2.8)		ND (2.8)
Barium	140000	4700	~	79	76	3.87	52
BERYLLOUM	2	2	~	ND (0.26)	ND (0.28)		ND (0.28)
Cadmium	1000	34	~	ND (0.26)	ND (0.28)		ND (0.28)
Chromium	~	~	~	23	22	4.44	11
COPPER	76000	2500	~	22	17	25.64	16
LEAD	1000	400	~	8.5	8.4	1.18	6.3
Nickel	7500	1400	~	20	18	10.53	9.1
Selenium	10000	340	~	ND (5.2)	ND (5.6)		ND (5.5)
Silver	10000	340	~	0.78	ND (0.56)		ND (0.55)
THALLIUM	160	5.4	~	ND (2.6)	ND (2.8)		ND (2.8)
Vanadium	14000	470	~	40	39	2.53	29
Zinc	61000	20000	~	48	45	6.45	29
SV-846 7471B (mg/Kg dry) Metals Digestion							
Mercury	610	20	~	ND (0.027)	ND (0.029)		ND (0.028)
SV-846 8082A (mg/Kg dry)							
PCB 1016	10	1	~	ND (0.11)	ND (0.11)		ND (0.11)
PCB 1221	10	1	~	ND (0.11)	ND (0.11)		ND (0.11)
PCB 1232	10	1	~	ND (0.11)	ND (0.11)		ND (0.11)
PCB 1242	10	1	~	ND (0.11)	ND (0.11)		ND (0.11)
PCB 1248	10	1	~	ND (0.11)	ND (0.11)		ND (0.11)
PCB 1254	10	1	~	ND (0.11)	ND (0.11)		ND (0.11)
PCB 1260	10	1	~	ND (0.11)	ND (0.11)		ND (0.11)
PCB 1262	10	1	~	ND (0.11)	ND (0.11)		ND (0.11)
PCB 1268	10	1	~	ND (0.11)	ND (0.11)		ND (0.11)
SV-846 8260C (mg/Kg dry)							
ACETONE	1000	500	140	ND (0.11)	ND (0.12)		ND (0.054)
ACRYLONITRILE	11	1.1	0.1	ND (0.0064)	ND (0.0072)		ND (0.0032)
BENZENE	200	21	0.2	ND (0.0021)	ND (0.0024)		ND (0.0011)
BROMOBENZENE	~	~	~	ND (0.0021)	ND (0.0024)		ND (0.0011)
BROMODICHLOROMETHANE	92	9.9	0.11	ND (0.0021)	ND (0.0024)		ND (0.0011)
BROMOFORM	720	78	0.8	ND (0.0021)	ND (0.0024)		ND (0.0011)
BROMOMETHANE	1000	95	2	ND (0.011)	ND (0.012)		ND (0.0054)
2-BUTANONE (MEK)	1000	500	80	ND (0.043)	ND (0.048)		ND (0.022)
N-BUTYLBENZENE	1000	500	14	ND (0.0021)	ND (0.0024)		ND (0.0011)
SEC-BUTYLBENZENE	1000	500	14	ND (0.0021)	ND (0.0024)		ND (0.0011)
TERT-BUTYLBENZENE	1000	500	14	ND (0.0021)	ND (0.0024)		ND (0.0011)
CARBON DISULFIDE	1000	500	140	ND (0.0064)	ND (0.0072)		ND (0.0032)
CARBON TETRACHLORIDE	44	4.7	1	ND (0.0021)	ND (0.0024)		ND (0.0011)
CHLOROBENZENE	1000	500	20	ND (0.0021)	ND (0.0024)		ND (0.0011)
CHLORODIBROMOMETHANE	68	7.3	0.1	ND (0.0011)	ND (0.0012)		ND (0.00054)
CHLOROETHANE	~	~	~	ND (0.021)	ND (0.024)		ND (0.011)
CHLOROFORM	940	100	1.2	ND (0.0043)	ND (0.0048)		ND (0.0022)
CHLOROMETHANE	440	47	0.54	ND (0.011)	ND (0.012)		ND (0.0054)
2-CHLORTOLUENE	~	~	~	ND (0.0021)	ND (0.0024)		ND (0.0011)
4-CHLORTOLUENE	~	~	~	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,2-DIBROMO-3-CHLOROPROPANE	4.1	0.44	~	ND (0.0021)	ND (0.0024)		ND (0.0011)
EDB	~	~	~	ND (0.0011)	ND (0.0012)		ND (0.00054)
DIBROMOMETHANE	~	~	~	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,2-DICHLOROBENZENE	1000	500	3.1	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,3-DICHLOROBENZENE	1000	500	120	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,4-DICHLOROBENZENE	240	26	15	ND (0.0021)	ND (0.0024)		ND (0.0011)
TRANS-1,4-DICHLORO-2-BUTENE	~	~	~	ND (0.0043)	ND (0.0048)		ND (0.0022)
DICHLORODIFLUOROMETHANE	~	~	~	ND (0.021)	ND (0.024)		ND (0.011)
1,1-DICHLOROETHANE	1000	500	14	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,2-DICHLOROETHANE	63	6.7	0.2	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,1-DICHLOROETHYLENE	9.5	1	1.4	ND (0.0043)	ND (0.0048)		ND (0.0022)
CIS-1,2-DICHLOROETHYLENE	1000	500	14	ND (0.0021)	ND (0.0024)		ND (0.0011)
TRANS-1,2-DICHLOROETHYLENE	1000	500	20	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,2-DICHLOROPROPANE	84	9	1	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,3-DICHLOROPROPANE	~	~	~	ND (0.0011)	ND (0.0012)		ND (0.00054)
2,2-DICHLOROPROPANE	~	~	~	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,1-DICHLOROPROPENE	~	~	~	ND (0.0021)	ND (0.0024)		ND (0.0011)
CIS-1,3-DICHLOROPROPENE	32	3.4	0.1	ND (0.0011)	ND (0.0012)		ND (0.00054)
TRANS-1,3-DICHLOROPROPENE	32	3.4	0.1	ND (0.0011)	ND (0.0012)		ND (0.00054)
ETHYLBENZENE	1000	500	10.1	ND (0.0021)	ND (0.0024)		ND (0.0011)
HEXACHLOROBUTADIENE	73	7.9	1	ND (0.0021)	ND (0.0024)		ND (0.0011)
2-HEXANONE	~	~	~	ND (0.021)	ND (0.024)		ND (0.011)
ISOPROPYLBENZENE	1000	500	132	ND (0.0021)	ND (0.0024)		ND (0.0011)
P-ISOPROPYLTOLUENE	1000	500	41.8	ND (0.0021)	ND (0.0024)		ND (0.0011)
MTBE	1000	500	20	ND (0.0043)	ND (0.0048)		ND (0.0022)
METHYLENE CHLORIDE	760	82	1	ND (0.021)	ND (0.024)		ND (0.011)
MIBK	1000	500	14	ND (0.021)	ND (0.024)		ND (0.011)
NAPHTHALENE	2500	1000	56	ND (0.0043)	ND (0.0048)		ND (0.0022)
N-PROPYLBENZENE	1000	500	14	ND (0.0021)	ND (0.0024)		ND (0.0011)
STYRENE	1000	500	20	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,1,1,2-TETRACHLOROETHANE	220	24	0.2	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,1,2,2-TETRACHLOROETHANE	29	3.1	0.1	ND (0.0011)	ND (0.0012)		ND (0.00054)
TETRACHLOROETHYLENE	110	12	1	ND (0.0021)	ND (0.0024)		ND (0.0011)
TETRAHYDROFURAN	~	~	~	ND (0.011)	ND (0.012)		ND (0.0054)
TOLUENE	1000	500	67	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,2,3-TRICHLOROBENZENE	~	~	~	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,2,4-TRICHLOROBENZENE	2500	680	14	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,1,1-TRICHLOROETHANE	1000	500	40	ND (0.0021)	ND (0.0024)		ND (0.0011)
1,1,2-TRICHLOROETHANE	100	11	1	ND (0.0021)	ND (0.0024)		ND (0.0011)

Table 4
Soil Data Validation
 Formatron
 Middletown, Connecticut

Parameter	RSR DEC		RSR PMC				
	I/C DEC	RES DEC		B-3 2-4ft DUP	Relative Percent Difference (RPD)	Trip Blank	Trip Blank
Sampling Date				2/9/2012 8:45:00 AM		2/13/2012	2/13/2012
Sample Depth				2-4 Feet		0- Feet	0- Feet
Laboratory Report Number				12B0378		12B0425	12B0425
CTDEP ETPH (mg/Kg dry)							
ETPH	2500	500	2500	270		NT	NT
SM 2540G (% WT)							
% Solids	~	~	~	84.7		NT	NT
SV-846 6010C (mg/Kg dry) Metals Digestion							
ANTIMONY	8200	27	~	ND (2.9)	32.26	NT	NT
Arsenic	10	10	~	ND (2.9)		NT	NT
Barium	140000	4700	~	72		NT	NT
BERYLLIUM	2	2	~	ND (0.29)		NT	NT
Cadmium	1000	34	~	ND (0.29)		NT	NT
Chromium	~	~	~	14		24.00	NT
COPPER	76000	2500	~	20		22.22	NT
LEAD	1000	400	~	7.6		18.71	NT
Nickel	7500	1400	~	11		18.91	NT
Selenium	10000	340	~	ND (5.9)		NT	NT
Silver	10000	340	~	ND (0.59)		NT	NT
THALLIUM	160	5.4	~	ND (2.9)		NT	NT
Vanadium	14000	470	~	34		15.87	NT
Zinc	610000	20000	~	38		26.87	NT
SV-846 7471B (mg/Kg dry) Metals Digestion							
Mercury	610	20	~	ND (0.029)		NT	NT
SV-846 8082A (mg/Kg dry)							
PCB 1016	10	1	~	ND (0.12)		NT	NT
PCB 1221	10	1	~	ND (0.12)		NT	NT
PCB 1232	10	1	~	ND (0.12)		NT	NT
PCB 1242	10	1	~	ND (0.12)		NT	NT
PCB 1248	10	1	~	ND (0.12)		NT	NT
PCB 1254	10	1	~	ND (0.12)		NT	NT
PCB 1260	10	1	~	ND (0.12)		NT	NT
PCB 1262	10	1	~	ND (0.12)		NT	NT
PCB 1268	10	1	~	ND (0.12)		NT	NT
SV-846 8260C (mg/Kg dry)							
ACETONE	1000	500	140	ND (0.053)		ND (0.10)	ND (0.10)
ACRYLONITRILE	11	1.1	0.1	ND (0.0032)		ND (0.0060)	ND (0.0060)
BENZENE	200	21	0.2	ND (0.0011)		ND (0.0020)	ND (0.0020)
BROMOBENZENE	~	~	~	ND (0.0011)		ND (0.0020)	ND (0.0020)
BROMODICHLOROMETHANE	92	9.9	0.11	ND (0.0011)		ND (0.0020)	ND (0.0020)
BROMOFORM	720	78	0.8	ND (0.0011)		ND (0.0020)	ND (0.0020)
BROMOMETHANE	1000	95	2	ND (0.0053)		ND (0.010)	ND (0.010)
2-BUTANONE (MEK)	1000	500	80	ND (0.021)		ND (0.040)	ND (0.040)
N-BUTYLBENZENE	1000	500	14	ND (0.0011)		ND (0.0020)	ND (0.0020)
SEC-BUTYLBENZENE	1000	500	14	ND (0.0011)		ND (0.0020)	ND (0.0020)
TERT-BUTYLBENZENE	1000	500	14	ND (0.0011)		ND (0.0020)	ND (0.0020)
CARBON DISULFIDE	1000	500	140	ND (0.0032)		ND (0.0060)	ND (0.0060)
CARBON TETRACHLORIDE	44	4.7	1	ND (0.0011)		ND (0.0020)	ND (0.0020)
CHLOROBENZENE	1000	500	20	ND (0.0011)		ND (0.0020)	ND (0.0020)
CHLORODIBROMOMETHANE	68	7.3	0.1	ND (0.00053)		ND (0.0010)	ND (0.0010)
CHLOROETHANE	~	~	~	ND (0.011)		ND (0.020)	ND (0.020)
CHLOROFORM	940	100	1.2	ND (0.0021)		ND (0.0040)	ND (0.0040)
CHLOROMETHANE	440	47	0.54	ND (0.0053)		ND (0.010)	ND (0.010)
2-CHLOROTOLUENE	~	~	~	ND (0.0011)		ND (0.0020)	ND (0.0020)
4-CHLOROTOLUENE	~	~	~	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,2-DIBROMO-3-CHLOROPROPANE	4.1	0.44	~	ND (0.0011)		ND (0.0020)	ND (0.0020)
EDB	~	~	~	ND (0.00053)		ND (0.0010)	ND (0.0010)
DIBROMOMETHANE	~	~	~	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,2-DICHLOROBENZENE	1000	500	3.1	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,3-DICHLOROBENZENE	1000	500	120	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,4-DICHLOROBENZENE	240	26	15	ND (0.0011)		ND (0.0020)	ND (0.0020)
TRANS-1,4-DICHLORO-2-BUTENE	~	~	~	ND (0.0021)		ND (0.0040)	ND (0.0040)
DICHLORODIFLUOROMETHANE	~	~	~	ND (0.011)		ND (0.020)	ND (0.020)
1,1-DICHLOROETHANE	1000	500	14	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,2-DICHLOROETHANE	63	6.7	0.2	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,1-DICHLOROETHYLENE	9.5	1	1.4	ND (0.0021)		ND (0.0040)	ND (0.0040)
CIS-1,2-DICHLOROETHYLENE	1000	500	14	ND (0.0011)		ND (0.0020)	ND (0.0020)
TRANS-1,2-DICHLOROETHYLENE	1000	500	20	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,2-DICHLOROPROPANE	84	9	1	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,3-DICHLOROPROPANE	~	~	~	ND (0.00053)		ND (0.0010)	ND (0.0010)
2,2-DICHLOROPROPANE	~	~	~	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,1-DICHLOROPROPENE	~	~	~	ND (0.0011)		ND (0.0020)	ND (0.0020)
CIS-1,3-DICHLOROPROPENE	32	3.4	0.1	ND (0.00053)		ND (0.0010)	ND (0.0010)
TRANS-1,3-DICHLOROPROPENE	32	3.4	0.1	ND (0.00053)		ND (0.0010)	ND (0.0010)
ETHYLBENZENE	1000	500	10.1	ND (0.0011)		ND (0.0020)	ND (0.0020)
HEXACHLOROBUTADIENE	73	7.9	1	ND (0.0011)		ND (0.0020)	ND (0.0020)
2-HEXANONE	~	~	~	ND (0.011)		ND (0.020)	ND (0.020)
ISOPROPYLBENZENE	1000	500	132	ND (0.0011)		ND (0.0020)	ND (0.0020)
P-ISOPROPYLTOLUENE	1000	500	41.8	ND (0.0011)		ND (0.0020)	ND (0.0020)
MTBE	1000	500	20	ND (0.0021)		ND (0.0040)	ND (0.0040)
METHYLENE CHLORIDE	760	82	1	ND (0.011)		ND (0.020)	ND (0.020)
MIBK	1000	500	14	ND (0.011)		ND (0.020)	ND (0.020)
NAPHTHALENE	2500	1000	56	ND (0.0021)		ND (0.0040)	ND (0.0040)
N-PROPYLBENZENE	1000	500	14	ND (0.0011)		ND (0.0020)	ND (0.0020)
STYRENE	1000	500	20	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,1,1,2-TETRACHLOROETHANE	220	24	0.2	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,1,2,2-TETRACHLOROETHANE	29	3.1	0.1	ND (0.00053)		ND (0.0010)	ND (0.0010)
TETRACHLOROETHYLENE	110	12	1	ND (0.0011)		ND (0.0020)	ND (0.0020)
TETRAHYDROFURAN	~	~	~	ND (0.0053)		ND (0.010)	ND (0.010)
TOLUENE	1000	500	67	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,2,3-TRICHLOROBENZENE	~	~	~	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,2,4-TRICHLOROBENZENE	2500	680	14	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,1,1-TRICHLOROETHANE	1000	500	40	ND (0.0011)		ND (0.0020)	ND (0.0020)
1,1,2-TRICHLOROETHANE	100	11	1	ND (0.0011)		ND (0.0020)	ND (0.0020)
TRICHLOROETHYLENE	520	56	1	ND (0.0011)		ND (0.0020)	ND (0.0020)
TRICHLOROFLUOROMETHANE	1000	500	260	ND (0.0053)		ND (0.010)	ND

Table 5
Groundwater Data Validation
Formatron
Middletown, Connecticut

Parameter	Sampling Location			
	MW-1	MW-1 Dup	Relative Percent Difference (RPD)	Trip Blank
Sampling Date	2/23/2012 10:00:00 AM	2/23/2012 10:15:00 AM		2/23/2012
Sample Depth	0- Feet	0- Feet		0- Feet
Laboratory Report Number	12B0835	12B0835		12B0835
CTDEP ETPH (mg/L)				
ETPH	0.44	0.39	12.05	NT
SW-846 6020A (µg/L)				
ANTIMONY	ND (5.0)	ND (5.0)		NT
Arsenic	ND (2.0)	ND (2.0)		NT
Barium	ND (50)	ND (50)		NT
BERYLLIUM	ND (2.0)	ND (2.0)		NT
Cadmium	ND (2.5)	ND (2.5)		NT
Chromium	ND (5.0)	ND (5.0)		NT
COPPER	ND (25)	ND (25)		NT
LEAD	ND (5.0)	ND (5.0)		NT
Nickel	ND (25)	30	82.35	NT
Selenium	ND (25)	ND (25)		NT
Silver	ND (2.5)	ND (2.5)		NT
THALLIUM	ND (1.0)	ND (1.0)		NT
Vanadium	ND (25)	ND (25)		NT
Zinc	ND (50)	ND (50)		NT
SW-846 7470A (mg/L)				
Mercury	ND (0.00010)	ND (0.00010)		NT
SW-846 8260C (µg/L)				
ACETONE	7.3	8.7	17.5	ND (5.0)
ACRYLONITRILE	ND (2.0)	ND (2.0)		ND (2.0)
BENZENE	ND (0.50)	ND (0.50)		ND (0.50)
BROMOBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
BROMODICHLOROMETHANE	ND (0.50)	ND (0.50)		ND (0.50)
BROMOFORM	ND (0.50)	ND (0.50)		ND (0.50)
BROMOMETHANE	ND (2.0)	ND (2.0)		ND (2.0)
2-BUTANONE (MEK)	45	48		ND (5.0)
N-BUTYLBENZENE	ND (1.0)	ND (1.0)		ND (1.0)
SEC-BUTYLBENZENE	ND (1.0)	ND (1.0)		ND (1.0)
TERT-BUTYLBENZENE	ND (1.0)	ND (1.0)	7.41	ND (1.0)
CARBON DISULFIDE	14	13		ND (5.0)
CARBON TETRACHLORIDE	ND (0.50)	ND (0.50)		ND (0.50)
CHLOROBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
CHLORODIBROMOMETHANE	ND (0.50)	ND (0.50)		ND (0.50)
CHLOROETHANE	ND (0.50)	ND (0.50)		ND (0.50)
CHLOROFORM	ND (0.50)	ND (0.50)		ND (0.50)
CHLOROMETHANE	ND (0.50)	ND (0.50)		ND (0.50)
2-CHLOROTOLUENE	ND (0.50)	ND (0.50)		ND (0.50)
4-CHLOROTOLUENE	ND (0.50)	ND (0.50)		ND (0.50)
1,2-DIBROMO-3-CHLOROPROPANE	ND (0.50)	ND (0.50)	6.45	ND (0.50)
EDB	ND (0.50)	ND (0.50)		ND (0.50)
DIBROMOMETHANE	ND (0.50)	ND (0.50)		ND (0.50)
1,2-DICHLOROBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
1,3-DICHLOROBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
1,4-DICHLOROBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
TRANS-1,4-DICHLORO-2-BUTENE	ND (2.0)	ND (2.0)		ND (2.0)
DICHLORODIFLUOROMETHANE	ND (0.50)	ND (0.50)		ND (0.50)
1,1-DICHLOROETHANE	ND (0.50)	ND (0.50)		ND (0.50)
1,2-DICHLOROETHANE	ND (0.50)	ND (0.50)		ND (0.50)
1,1-DICHLOROETHYLENE	ND (0.50)	ND (0.50)	0	ND (0.50)
CIS-1,2-DICHLOROETHYLENE	ND (0.50)	ND (0.50)		ND (0.50)
TRANS-1,2-DICHLOROETHYLENE	ND (1.0)	ND (1.0)		ND (1.0)
1,2-DICHLOROPROPANE	ND (0.50)	ND (0.50)		ND (0.50)
1,3-DICHLOROPROPANE	ND (0.50)	ND (0.50)		ND (0.50)
2,2-DICHLOROPROPANE	ND (0.50)	ND (0.50)		ND (0.50)
1,1-DICHLOROPROPENE	ND (0.50)	ND (0.50)		ND (0.50)
CIS-1,3-DICHLOROPROPENE	ND (0.50)	ND (0.50)		ND (0.50)
TRANS-1,3-DICHLOROPROPENE	ND (0.50)	ND (0.50)		ND (0.50)
ETHYLBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
HEXACHLOROBUTADIENE	ND (0.40)	ND (0.40)		ND (0.40)
2-HEXANONE	ND (5.0)	ND (5.0)		ND (5.0)
ISOPROPYLBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
P-ISOPROPYLtolUENE	ND (0.50)	ND (0.50)		ND (0.50)
MTBE	ND (0.50)	ND (0.50)		ND (0.50)
METHYLENE CHLORIDE	ND (5.0)	ND (5.0)		ND (5.0)
MIBK	ND (5.0)	ND (5.0)		ND (5.0)
NAPHTHALENE	ND (2.0)	ND (2.0)		ND (2.0)
N-PROPYLBENZENE	ND (1.0)	ND (1.0)		ND (1.0)
STYRENE	ND (1.0)	ND (1.0)		ND (1.0)
1,1,1,2-TETRACHLOROETHANE	ND (0.50)	ND (0.50)		ND (0.50)
1,1,2,2-TETRACHLOROETHANE	ND (0.50)	ND (0.50)		ND (0.50)
TETRACHLOROETHYLENE	ND (1.0)	ND (1.0)		ND (1.0)
TETRAHYDROFURAN	ND (10)	ND (10)		ND (10)
TOLUENE	ND (1.0)	ND (1.0)		ND (1.0)
1,2,3-TRICHLOROBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
1,2,4-TRICHLOROBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
1,1,1-TRICHLOROETHANE	ND (0.50)	ND (0.50)		ND (0.50)
1,1,2-TRICHLOROETHANE	ND (0.50)	ND (0.50)		ND (0.50)
TRICHLOROETHYLENE	1.2	1.2		ND (1.0)
TRICHLOROFLUOROMETHANE	ND (2.0)	ND (2.0)		ND (2.0)
1,2,3-TRICHLOROPROPANE	ND (0.50)	ND (0.50)		ND (0.50)
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND (0.50)	ND (0.50)		ND (0.50)
1,2,4-TRIMETHYLBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
1,3,5-TRIMETHYLBENZENE	ND (0.50)	ND (0.50)		ND (0.50)
VINYL CHLORIDE	ND (1.0)	ND (1.0)		ND (1.0)
M/P-XYLENE	ND (2.0)	ND (2.0)		ND (2.0)
O-XYLENE	ND (1.0)	ND (1.0)		ND (1.0)
SW-846 8270D (µg/L)				
ACENAPHTHENE	ND (0.55)	ND (0.55)		NT
ACENAPHTHYLENE	ND (0.55)	ND (0.55)		NT
ANTHRACENE	ND (0.36)	ND (0.36)		NT
BENZO(A)ANTHRACENE	ND (0.091)	ND (0.091)		NT
BENZO(A)PYRENE	ND (0.18)	ND (0.18)		NT
BENZO(B)FLUORANTHENE	ND (0.091)	ND (0.091)		NT
BENZO(G,H,I)PERYLENE	ND (0.91)	ND (0.91)		NT
BENZO(K)FLUORANTHENE	ND (0.36)	ND (0.36)		NT
CHRYSENE	ND (0.36)	ND (0.36)		NT
DIBENZ(A,H)ANTHRACENE	ND (0.36)	ND (0.36)		NT
FLUORANTHENE	ND (0.91)	ND (0.91)		NT
FLUORENE	ND (1.8)	ND (1.8)		NT
INDENO(1,2,3-CD)PYRENE	ND (0.36)	ND (0.36)		NT
2-METHYLNAPHTHALENE	ND (1.8)	ND (1.8)		NT
NAPHTHALENE	ND (1.8)	ND (1.8)		NT
PHENANTHRENE	ND (0.091)	ND (0.091)		NT
PYRENE	ND (1.8)	ND (1.8)		NT

PYRENE

NOTES:

1. NT = Not tested.

2. ~ = No Standard available

Appendix A

Limitations

DRAFT

128-134 Main Street Extension

105 East Main Street

10 Cooley Avenue

Middletown, Connecticut

- ↗ This report has been prepared for the sole and exclusive use of the City of Middletown (Client) and is subject to and issued in connection with the Agreement and the provisions thereof. Any use or reliance upon information provided in this report, without the specific written authorization of Client and VHB, shall be at User's sole risk.
- ↗ In conducting this assessment, VHB has obtained and relied upon information from multiple sources to form certain conclusions regarding potential environmental issues at and in the vicinity of the subject property. Except as otherwise noted, VHB has not verified the accuracy or completeness of such information.
- ↗ The objectives of the assessment described in this report were to assess the physical characteristics of the subject property with respect to overt evidence of past or present use, storage, and/or disposal of oil or hazardous materials, as defined in applicable state and federal environmental laws and regulations, and to gather information regarding current and past operations and environmental conditions at and in the vicinity of the subject property.
- ↗ The findings, observations and conclusions presented in this report, including the extent of subsurface explorations and other tests, are limited by the scope of services outlined in our Agreement. Furthermore, the assessment has been performed in accordance with generally accepted engineering practices. No other warranty, expressed or implied, is made.

The assessment presented in this report is based solely upon information gathered to date, including a limited number of subsurface explorations made on the dates indicated. Should further environmental or other

relevant information be developed at a later date, Client should bring the information to the attention of VHB as soon as possible. Based upon an evaluation, VHB may modify the report and its conclusions.

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Appendix B

Soil Boring Logs

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Appendix C

Laboratory Analytical Reports

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